



March 28, 2020

Vista Work Order No. 1903654

Ms. Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 15, 2019 under your Project Name 'Gasco PDI'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1903654

Case Narrative

Sample Condition on Receipt:

Eleven sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The analyses were originally on hold. Authorization to log in the samples and proceed with the analyses was received on December 3, 2019.

The container for sample "PDI-075SC-B-06-08-191013" cracked while thawing. The sample did not appear to be compromised and was transferred into a new amber glass jar, as directed on December 16, 2019.

Analytical Notes:

EPA Method 1613B

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-5MS GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected over 1/2 of the quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

As directed, a duplicate analysis of sample "PDI-075SC-B-04-06-191013" was performed. The "#" symbol indicates that 2,3,7,8-TCDD was not detected in the sample but was detected in the duplicate. An RPD could not be calculated. The RPDs for all other analytes were greater than 30%.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	13C-2,3,7,8-TCDD	H	15.5
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDD	H	29.0
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDD	H	22.2
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	13C-OCDD	H	9.70
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	13C-2,3,7,8-TCDF	H	12.9
1903654-01	PDI-073SC-B-00-02-191013	EPA Method 1613B	37Cl-2,3,7,8-TCDD	H	16.3

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903654-01	PDI-073SC-B-00-02-191013	13-Oct-19 10:37	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-02	PDI-073SC-B-02-04-191013	13-Oct-19 10:37	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-03	PDI-073SC-B-04-06-191013	13-Oct-19 10:37	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-04	PDI-073SC-B-06-08-191013	13-Oct-19 10:37	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-05	PDI-075SC-B-00-02-191013	13-Oct-19 07:35	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-06	PDI-075SC-B-02-04-191013	13-Oct-19 07:35	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-07	PDI-075SC-B-04-06-191013	Dup13-Oct-19 07:35	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-08	PDI-075SC-B-06-08-191013	13-Oct-19 07:35	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-09	PDI-076SC-B-00-02-191013	13-Oct-19 13:17	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-10	PDI-076SC-B-02-05-191013	13-Oct-19 13:18	15-Oct-19 08:51	Amber Glass, 120 mL
1903654-11	PDI-076SC-B-05-07-191013	13-Oct-19 13:19	15-Oct-19 08:51	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08		Lab Sample: B0A0056-BLK1 Date Analyzed: 02-Feb-20 12:44 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0658			IS 13C-2,3,7,8-TCDD	94.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0645			13C-1,2,3,7,8-PeCDD	94.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0572			13C-1,2,3,4,7,8-HxCDD	82.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0574			13C-1,2,3,6,7,8-HxCDD	79.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0611			13C-1,2,3,7,8,9-HxCDD	81.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0972			13C-1,2,3,4,6,7,8-HpCDD	80.2	23 - 140	
OCDD	0.246			J	13C-OCDD	66.7	17 - 157	
2,3,7,8-TCDF	ND	0.0472			13C-2,3,7,8-TCDF	85.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0439			13C-1,2,3,7,8-PeCDF	89.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0399			13C-2,3,4,7,8-PeCDF	89.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0407			13C-1,2,3,4,7,8-HxCDF	92.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0406			13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0442			13C-2,3,4,6,7,8-HxCDF	86.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0830		13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0667			13C-1,2,3,4,6,7,8-HpCDF	85.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0732			13C-1,2,3,4,7,8,9-HpCDF	81.2	26 - 138	
OCDF	ND	0.0935			13C-OCDF	68.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.8	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000074			
TOTALS								
Total TCDD	ND	0.0658						
Total PeCDD	ND	0.0645						
Total HxCDD	ND	0.0611						
Total HpCDD	ND	0.0972						
Total TCDF	ND	0.0472						
Total PeCDF	ND	0.0439						
Total HxCDF	ND		0.0830					
Total HpCDF	ND	0.0732						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08		Lab Sample: B0A0056-BS1 Date Analyzed: 02-Feb-20 11:11 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.1	20.0	100	67 - 158	IS 13C-2,3,7,8-TCDD	80.5	20 - 175
1,2,3,7,8-PeCDD	98.0	100	98.0	70 - 142	13C-1,2,3,7,8-PeCDD	78.0	21 - 227
1,2,3,4,7,8-HxCDD	104	100	104	70 - 164	13C-1,2,3,4,7,8-HxCDD	74.8	21 - 193
1,2,3,6,7,8-HxCDD	106	100	106	76 - 134	13C-1,2,3,6,7,8-HxCDD	73.9	25 - 163
1,2,3,7,8,9-HxCDD	106	100	106	64 - 162	13C-1,2,3,7,8,9-HxCDD	72.8	21 - 193
1,2,3,4,6,7,8-HpCDD	103	100	103	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	69.2	26 - 166
OCDD	195	200	97.7	78 - 144	13C-OCDD	60.1	13 - 199
2,3,7,8-TCDF	21.5	20.0	107	75 - 158	13C-2,3,7,8-TCDF	77.5	22 - 152
1,2,3,7,8-PeCDF	104	100	104	80 - 134	13C-1,2,3,7,8-PeCDF	80.4	21 - 192
2,3,4,7,8-PeCDF	103	100	103	68 - 160	13C-2,3,4,7,8-PeCDF	82.5	13 - 328
1,2,3,4,7,8-HxCDF	108	100	108	72 - 134	13C-1,2,3,4,7,8-HxCDF	80.0	19 - 202
1,2,3,6,7,8-HxCDF	110	100	110	84 - 130	13C-1,2,3,6,7,8-HxCDF	79.6	21 - 159
2,3,4,6,7,8-HxCDF	109	100	109	70 - 156	13C-2,3,4,6,7,8-HxCDF	78.7	22 - 176
1,2,3,7,8,9-HxCDF	109	100	109	78 - 130	13C-1,2,3,7,8,9-HxCDF	78.3	17 - 205
1,2,3,4,6,7,8-HpCDF	109	100	109	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.2	21 - 158
1,2,3,4,7,8,9-HpCDF	111	100	111	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	73.1	20 - 186
OCDF	221	200	110	63 - 170	13C-OCDF	59.7	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	90.0	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39		Lab Sample: B0C0209-BLK1 Date Analyzed: 18-Mar-20 21:02 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0922			IS 13C-2,3,7,8-TCDD	80.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0728			13C-1,2,3,7,8-PeCDD	84.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0698			13C-1,2,3,4,7,8-HxCDD	71.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0693			13C-1,2,3,6,7,8-HxCDD	70.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0799			13C-1,2,3,7,8,9-HxCDD	72.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.130			13C-1,2,3,4,6,7,8-HpCDD	76.6	23 - 140	
OCDD	0.451			J	13C-OCDD	66.2	17 - 157	
2,3,7,8-TCDF	ND	0.0540			13C-2,3,7,8-TCDF	71.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0445			13C-1,2,3,7,8-PeCDF	74.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0429			13C-2,3,4,7,8-PeCDF	73.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0414			13C-1,2,3,4,7,8-HxCDF	78.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0401			13C-1,2,3,6,7,8-HxCDF	78.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0398			13C-2,3,4,6,7,8-HxCDF	77.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0574			13C-1,2,3,7,8,9-HxCDF	75.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0613			13C-1,2,3,4,6,7,8-HpCDF	74.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0772			13C-1,2,3,4,7,8,9-HpCDF	77.0	26 - 138	
OCDF	ND	0.144			13C-OCDF	68.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.3	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000135			
TOTALS								
Total TCDD	ND	0.0922						
Total PeCDD	ND	0.0728						
Total HxCDD	ND	0.0799						
Total HpCDD	ND	0.130						
Total TCDF	ND	0.0540						
Total PeCDF	ND	0.0445						
Total HxCDF	ND	0.0574						
Total HpCDF	ND	0.0772						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0C0209	Lab Sample: B0C0209-BS1					
Sample Size: 10.0 g	Date Extracted: 17-Mar-2020 10:39	Date Analyzed: 18-Mar-20 17:52	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.2	20.0	85.8	67 - 158	IS 13C-2,3,7,8-TCDD	77.4	20 - 175
1,2,3,7,8-PeCDD	90.7	100	90.7	70 - 142	13C-1,2,3,7,8-PeCDD	89.0	21 - 227
1,2,3,4,7,8-HxCDD	92.8	100	92.8	70 - 164	13C-1,2,3,4,7,8-HxCDD	77.9	21 - 193
1,2,3,6,7,8-HxCDD	93.4	100	93.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	76.4	25 - 163
1,2,3,7,8,9-HxCDD	94.7	100	94.7	64 - 162	13C-1,2,3,7,8,9-HxCDD	80.3	21 - 193
1,2,3,4,6,7,8-HpCDD	92.7	100	92.7	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	86.3	26 - 166
OCDD	176	200	87.9	78 - 144	13C-OCDD	73.3	13 - 199
2,3,7,8-TCDF	18.0	20.0	90.2	75 - 158	13C-2,3,7,8-TCDF	65.8	22 - 152
1,2,3,7,8-PeCDF	92.7	100	92.7	80 - 134	13C-1,2,3,7,8-PeCDF	74.0	21 - 192
2,3,4,7,8-PeCDF	93.3	100	93.3	68 - 160	13C-2,3,4,7,8-PeCDF	75.0	13 - 328
1,2,3,4,7,8-HxCDF	92.9	100	92.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.2	19 - 202
1,2,3,6,7,8-HxCDF	95.5	100	95.5	84 - 130	13C-1,2,3,6,7,8-HxCDF	82.2	21 - 159
2,3,4,6,7,8-HxCDF	93.3	100	93.3	70 - 156	13C-2,3,4,6,7,8-HxCDF	82.5	22 - 176
1,2,3,7,8,9-HxCDF	90.6	100	90.6	78 - 130	13C-1,2,3,7,8,9-HxCDF	84.4	17 - 205
1,2,3,4,6,7,8-HpCDF	89.8	100	89.8	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	86.0	21 - 158
1,2,3,4,7,8,9-HpCDF	91.0	100	91.0	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	86.4	20 - 186
OCDF	186	200	93.1	63 - 170	13C-OCDF	74.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	71.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-073SC-B-00-02-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-01 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.3 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 10:37	% Solids: 65.7	Date Analyzed : 03-Feb-20 22:13 Column: ZB-5MS 03-Feb-20 23:00 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	4.14		D	IS 13C-2,3,7,8-TCDD	15.5	25 - 164	D, H
1,2,3,7,8-PeCDD	5.20			D, J	13C-1,2,3,7,8-PeCDD	28.9	25 - 181	D
1,2,3,4,7,8-HxCDD	27.9			D	13C-1,2,3,4,7,8-HxCDD	29.0	32 - 141	D, H
1,2,3,6,7,8-HxCDD	236			D	13C-1,2,3,6,7,8-HxCDD	32.1	28 - 130	D
1,2,3,7,8,9-HxCDD	67.7			D	13C-1,2,3,7,8,9-HxCDD	39.1	32 - 141	D
1,2,3,4,6,7,8-HpCDD	22400			D	13C-1,2,3,4,6,7,8-HpCDD	22.2	23 - 140	D, H
OCDD	137000			D, B	13C-OCDD	9.70	17 - 157	D, H
2,3,7,8-TCDF	ND		43.0	D	13C-2,3,7,8-TCDF	12.9	24 - 169	D, H
1,2,3,7,8-PeCDF	68.1			D	13C-1,2,3,7,8-PeCDF	25.7	24 - 185	D
2,3,4,7,8-PeCDF	45.6			D	13C-2,3,4,7,8-PeCDF	24.7	21 - 178	D
1,2,3,4,7,8-HxCDF	123			D	13C-1,2,3,4,7,8-HxCDF	33.5	26 - 152	D
1,2,3,6,7,8-HxCDF	32.8			D	13C-1,2,3,6,7,8-HxCDF	32.8	26 - 123	D
2,3,4,6,7,8-HxCDF	12.2			D, J	13C-2,3,4,6,7,8-HxCDF	32.1	28 - 136	D
1,2,3,7,8,9-HxCDF	2.68			D, J	13C-1,2,3,7,8,9-HxCDF	34.2	29 - 147	D
1,2,3,4,6,7,8-HpCDF	643			D	13C-1,2,3,4,6,7,8-HpCDF	36.1	28 - 143	D
1,2,3,4,7,8,9-HpCDF	56.4			D	13C-1,2,3,4,7,8,9-HpCDF	28.9	26 - 138	D
OCDF	4400			D	13C-OCDF	18.6	17 - 157	D
					CRS 37Cl-2,3,7,8-TCDD	16.3	35 - 197	D, H

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 345

TOTALS		
Total TCDD	35.7	62.9
Total PeCDD	121	146
Total HxCDD	4530	
Total HpCDD	55300	
Total TCDF	67.7	111
Total PeCDF	212	220
Total HxCDF	644	
Total HpCDF	3910	3930

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-073SC-B-02-04-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-02 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.7 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 10:37	% Solids: 64.2	Date Analyzed : 02-Feb-20 15:05 Column: ZB-5MS 12-Mar-20 00:49 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.432			IS 13C-2,3,7,8-TCDD	49.4	25 - 164	
1,2,3,7,8-PeCDD	ND		1.05		13C-1,2,3,7,8-PeCDD	55.4	25 - 181	
1,2,3,4,7,8-HxCDD	1.21			J	13C-1,2,3,4,7,8-HxCDD	58.2	32 - 141	
1,2,3,6,7,8-HxCDD	10.9				13C-1,2,3,6,7,8-HxCDD	49.4	28 - 130	
1,2,3,7,8,9-HxCDD	3.72				13C-1,2,3,7,8,9-HxCDD	53.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	502				13C-1,2,3,4,6,7,8-HpCDD	63.2	23 - 140	
OCDD	3830			B	13C-OCDD	45.7	17 - 157	
2,3,7,8-TCDF	2.79				13C-2,3,7,8-TCDF	43.9	24 - 169	
1,2,3,7,8-PeCDF	2.86				13C-1,2,3,7,8-PeCDF	54.0	24 - 185	
2,3,4,7,8-PeCDF	2.08			J	13C-2,3,4,7,8-PeCDF	53.9	21 - 178	
1,2,3,4,7,8-HxCDF	6.32				13C-1,2,3,4,7,8-HxCDF	45.9	26 - 152	
1,2,3,6,7,8-HxCDF	2.74				13C-1,2,3,6,7,8-HxCDF	50.2	26 - 123	
2,3,4,6,7,8-HxCDF	3.96				13C-2,3,4,6,7,8-HxCDF	57.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.210			J	13C-1,2,3,7,8,9-HxCDF	57.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	78.5				13C-1,2,3,4,6,7,8-HpCDF	59.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.46				13C-1,2,3,4,7,8,9-HpCDF	56.1	26 - 138	
OCDF	273				13C-OCDF	42.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	56.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 11.0

TOTALS			
Total TCDD	3.17		
Total PeCDD	11.0	16.9	
Total HxCDD	141	143	
Total HpCDD	1130		
Total TCDF	54.5	56.2	
Total PeCDF	62.0	84.2	
Total HxCDF	96.0		
Total HpCDF	292		

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-073SC-B-04-06-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-03 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 10:37	% Solids: 79.7	Date Analyzed : 02-Feb-20 15:52 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.237			IS 13C-2,3,7,8-TCDD	58.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.623			13C-1,2,3,7,8-PeCDD	46.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.333			13C-1,2,3,4,7,8-HxCDD	34.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.735		13C-1,2,3,6,7,8-HxCDD	35.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.424		13C-1,2,3,7,8,9-HxCDD	32.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	29.7				13C-1,2,3,4,6,7,8-HpCDD	35.0	23 - 140	
OCDD	362			B	13C-OCDD	19.1	17 - 157	
2,3,7,8-TCDF	ND		0.265		13C-2,3,7,8-TCDF	55.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.585			13C-1,2,3,7,8-PeCDF	34.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.377			13C-2,3,4,7,8-PeCDF	42.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.287			13C-1,2,3,4,7,8-HxCDF	39.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.288			13C-1,2,3,6,7,8-HxCDF	36.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.382			13C-2,3,4,6,7,8-HxCDF	31.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.386			13C-1,2,3,7,8,9-HxCDF	33.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	5.24				13C-1,2,3,4,6,7,8-HpCDF	34.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.491			13C-1,2,3,4,7,8,9-HpCDF	32.7	26 - 138	
OCDF	19.0				13C-OCDF	17.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	59.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 0.464

TOTALS								
Total TCDD	ND	0.237						
Total PeCDD	ND		0.614					
Total HxCDD	8.05		9.68					
Total HpCDD	80.6							
Total TCDF	8.82		9.29					
Total PeCDF	9.29		9.69					
Total HxCDF	4.40		6.47					
Total HpCDF	19.3							

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-073SC-B-06-08-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-04 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.5 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 10:37	% Solids: 64.9	Date Analyzed : 02-Feb-20 16:39 Column: ZB-5MS 12-Mar-20 01:20 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.380		IS 13C-2,3,7,8-TCDD	53.4	25 - 164	
1,2,3,7,8-PeCDD	1.16			J	13C-1,2,3,7,8-PeCDD	47.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.256			J	13C-1,2,3,4,7,8-HxCDD	40.8	32 - 141	
1,2,3,6,7,8-HxCDD	1.58			J	13C-1,2,3,6,7,8-HxCDD	39.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.811			J	13C-1,2,3,7,8,9-HxCDD	37.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	13.4				13C-1,2,3,4,6,7,8-HpCDD	39.6	23 - 140	
OCDD	295			B	13C-OCDD	24.7	17 - 157	
2,3,7,8-TCDF	0.719				13C-2,3,7,8-TCDF	50.4	24 - 169	
1,2,3,7,8-PeCDF	0.412			J	13C-1,2,3,7,8-PeCDF	38.7	24 - 185	
2,3,4,7,8-PeCDF	2.52				13C-2,3,4,7,8-PeCDF	43.1	21 - 178	
1,2,3,4,7,8-HxCDF	1.76			J	13C-1,2,3,4,7,8-HxCDF	43.6	26 - 152	
1,2,3,6,7,8-HxCDF	1.34			J	13C-1,2,3,6,7,8-HxCDF	39.1	26 - 123	
2,3,4,6,7,8-HxCDF	2.94				13C-2,3,4,6,7,8-HxCDF	32.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.334			J	13C-1,2,3,7,8,9-HxCDF	36.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	4.54				13C-1,2,3,4,6,7,8-HpCDF	38.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.542			J	13C-1,2,3,4,7,8,9-HpCDF	36.5	26 - 138	
OCDF	4.52			J	13C-OCDF	24.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	55.6	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 3.18

TOTALS		
Total TCDD	3.99	4.70
Total PeCDD	10.1	11.9
Total HxCDD	15.9	
Total HpCDD	33.6	
Total TCDF	35.5	35.7
Total PeCDF	59.1	74.7
Total HxCDF	36.3	
Total HpCDF	11.1	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-075SC-B-00-02-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-05 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 20.1 g	QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39
Date Collected: 13-Oct-2019 7:35	% Solids: 49.8	Date Analyzed : 19-Mar-20 07:29 Column: ZB-5MS 24-Mar-20 14:05 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.19				IS 13C-2,3,7,8-TCDD	61.3	25 - 164	
1,2,3,7,8-PeCDD	4.95				13C-1,2,3,7,8-PeCDD	88.1	25 - 181	
1,2,3,4,7,8-HxCDD	7.43				13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
1,2,3,6,7,8-HxCDD	35.1				13C-1,2,3,6,7,8-HxCDD	80.2	28 - 130	
1,2,3,7,8,9-HxCDD	17.6				13C-1,2,3,7,8,9-HxCDD	87.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1060				13C-1,2,3,4,6,7,8-HpCDD	109	23 - 140	
OCDD	16600			D, B	13C-OCDD	64.8	17 - 157	D
2,3,7,8-TCDF	419				13C-2,3,7,8-TCDF	56.4	24 - 169	
1,2,3,7,8-PeCDF	747				13C-1,2,3,7,8-PeCDF	82.8	24 - 185	
2,3,4,7,8-PeCDF	370				13C-2,3,4,7,8-PeCDF	84.9	21 - 178	
1,2,3,4,7,8-HxCDF	1160				13C-1,2,3,4,7,8-HxCDF	87.1	26 - 152	
1,2,3,6,7,8-HxCDF	323				13C-1,2,3,6,7,8-HxCDF	79.8	26 - 123	
2,3,4,6,7,8-HxCDF	83.9				13C-2,3,4,6,7,8-HxCDF	82.4	28 - 136	
1,2,3,7,8,9-HxCDF	136				13C-1,2,3,7,8,9-HxCDF	88.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	647				13C-1,2,3,4,6,7,8-HpCDF	89.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	201				13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	1610				13C-OCDF	91.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	56.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 383

TOTALS					
Total TCDD	21.4				
Total PeCDD	42.8		43.0		
Total HxCDD	284				
Total HpCDD	2290				
Total TCDF	1350			P	
Total PeCDF	2080		2110	P	
Total HxCDF	2180		2200		
Total HpCDF	1940				

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-075SC-B-02-04-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-06 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 17.8 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 7:35	% Solids: 56.6	Date Analyzed : 02-Feb-20 18:13 Column: ZB-5MS 12-Mar-20 01:50 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.643		IS 13C-2,3,7,8-TCDD	84.2	25 - 164	
1,2,3,7,8-PeCDD	1.31			J	13C-1,2,3,7,8-PeCDD	79.2	25 - 181	
1,2,3,4,7,8-HxCDD	1.56			J	13C-1,2,3,4,7,8-HxCDD	69.5	32 - 141	
1,2,3,6,7,8-HxCDD	8.89				13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
1,2,3,7,8,9-HxCDD	3.64				13C-1,2,3,7,8,9-HxCDD	71.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	330				13C-1,2,3,4,6,7,8-HpCDD	68.5	23 - 140	
OCDD	5090			B	13C-OCDD	40.8	17 - 157	
2,3,7,8-TCDF	135				13C-2,3,7,8-TCDF	82.0	24 - 169	
1,2,3,7,8-PeCDF	285				13C-1,2,3,7,8-PeCDF	83.1	24 - 185	
2,3,4,7,8-PeCDF	123				13C-2,3,4,7,8-PeCDF	75.2	21 - 178	
1,2,3,4,7,8-HxCDF	506				13C-1,2,3,4,7,8-HxCDF	77.1	26 - 152	
1,2,3,6,7,8-HxCDF	128				13C-1,2,3,6,7,8-HxCDF	68.9	26 - 123	
2,3,4,6,7,8-HxCDF	31.2				13C-2,3,4,6,7,8-HxCDF	65.3	28 - 136	
1,2,3,7,8,9-HxCDF	21.9				13C-1,2,3,7,8,9-HxCDF	75.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	178				13C-1,2,3,4,6,7,8-HpCDF	69.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	63.8				13C-1,2,3,4,7,8,9-HpCDF	69.4	26 - 138	
OCDF	305				13C-OCDF	48.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 138

TOTALS		
Total TCDD	10.0	10.6
Total PeCDD	15.4	
Total HxCDD	92.9	
Total HpCDD	871	
Total TCDF	392	430
Total PeCDF	748	
Total HxCDF	873	
Total HpCDF	461	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-075SC-B-04-06-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-07 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 16.7 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 7:35	% Solids: 60.4	Date Analyzed : 02-Feb-20 19:47 Column: ZB-5MS 12-Mar-20 02:51 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.469		IS 13C-2,3,7,8-TCDD	79.4	25 - 164	
1,2,3,7,8-PeCDD	0.993			J	13C-1,2,3,7,8-PeCDD	74.6	25 - 181	
1,2,3,4,7,8-HxCDD	1.84			J	13C-1,2,3,4,7,8-HxCDD	65.9	32 - 141	
1,2,3,6,7,8-HxCDD	16.1				13C-1,2,3,6,7,8-HxCDD	68.1	28 - 130	
1,2,3,7,8,9-HxCDD	5.26				13C-1,2,3,7,8,9-HxCDD	70.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	1060				13C-1,2,3,4,6,7,8-HpCDD	71.0	23 - 140	
OCDD	6680			D, B	13C-OCDD	34.1	17 - 157	D
2,3,7,8-TCDF	8.83				13C-2,3,7,8-TCDF	80.3	24 - 169	
1,2,3,7,8-PeCDF	10.5				13C-1,2,3,7,8-PeCDF	73.1	24 - 185	
2,3,4,7,8-PeCDF	4.49				13C-2,3,4,7,8-PeCDF	72.0	21 - 178	
1,2,3,4,7,8-HxCDF	13.6				13C-1,2,3,4,7,8-HxCDF	73.1	26 - 152	
1,2,3,6,7,8-HxCDF	3.41				13C-1,2,3,6,7,8-HxCDF	66.3	26 - 123	
2,3,4,6,7,8-HxCDF	1.61			J	13C-2,3,4,6,7,8-HxCDF	67.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.835			J	13C-1,2,3,7,8,9-HxCDF	73.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	42.4				13C-1,2,3,4,6,7,8-HpCDF	70.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.77				13C-1,2,3,4,7,8,9-HpCDF	71.7	26 - 138	
OCDF	260				13C-OCDF	58.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 21.0

TOTALS		
Total TCDD	12.8	13.3
Total PeCDD	27.2	
Total HxCDD	246	
Total HpCDD	2460	
Total TCDF	34.0	35.4
Total PeCDF	42.5	44.2
Total HxCDF	55.4	
Total HpCDF	230	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Duplicate					EPA Method 1613B			
Source Client ID: PDI-075SC-B-04-06-191013		QC Batch: B0A0056		Lab Sample: B0A0056-DUP1				
Source LabNumber: 1903654-07		Date Extracted: 09-Jan-2020 8:08		Date Analyzed: 02-Feb-20 19:00 Column: ZB-5MS				
Matrix: Solid				12-Mar-20 02:21 Column: ZB-5MS				
Sample Size: 16.6 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.53				IS 13C-2,3,7,8-TCDD	60.9	25 - 164	
1,2,3,7,8-PeCDD	3.71				13C-1,2,3,7,8-PeCDD	67.4	25 - 181	
1,2,3,4,7,8-HxCDD	9.54				13C-1,2,3,4,7,8-HxCDD	65.0	32 - 141	
1,2,3,6,7,8-HxCDD	82.1				13C-1,2,3,6,7,8-HxCDD	60.7	28 - 130	
1,2,3,7,8,9-HxCDD	25.3				13C-1,2,3,7,8,9-HxCDD	64.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	5220			D	13C-1,2,3,4,6,7,8-HpCDD	48.6	23 - 140	D
OCDD	35000			D, B	13C-OCDD	30.4	17 - 157	D
2,3,7,8-TCDF	64.5				13C-2,3,7,8-TCDF	55.0	24 - 169	
1,2,3,7,8-PeCDF	110				13C-1,2,3,7,8-PeCDF	61.6	24 - 185	
2,3,4,7,8-PeCDF	41.3				13C-2,3,4,7,8-PeCDF	61.5	21 - 178	
1,2,3,4,7,8-HxCDF	164				13C-1,2,3,4,7,8-HxCDF	67.2	26 - 152	
1,2,3,6,7,8-HxCDF	45.3				13C-1,2,3,6,7,8-HxCDF	61.2	26 - 123	
2,3,4,6,7,8-HxCDF	17.0				13C-2,3,4,6,7,8-HxCDF	62.6	28 - 136	
1,2,3,7,8,9-HxCDF	4.30				13C-1,2,3,7,8,9-HxCDF	65.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	259				13C-1,2,3,4,6,7,8-HpCDF	65.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	39.8				13C-1,2,3,4,7,8,9-HpCDF	68.5	26 - 138	
OCDF	1340				13C-OCDF	51.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	61.4	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 128			
TOTALS								
Total TCDD	41.6		41.8					
Total PeCDD	98.1							
Total HxCDD	1240							
Total HpCDD	12400							
Total TCDF	209							
Total PeCDF	406							
Total HxCDF	477		478					
Total HpCDF	1320							

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-075SC-B-04-06-191013					Duplicate Lab Sample: B0A0056-DUP1				
Source LabNumber: 1903654-07									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	1.53	ND	#	25	IS 13C-2,3,7,8-TCDD	60.9	79.4	25 - 164	
1,2,3,7,8-PeCDD	3.71	0.993	115	25	13C-1,2,3,7,8-PeCDD	67.4	74.6	25 - 181	
1,2,3,4,7,8-HxCDD	9.54	1.84	135	25	13C-1,2,3,4,7,8-HxCDD	65.0	65.9	32 - 141	
1,2,3,6,7,8-HxCDD	82.1	16.1	134	25	13C-1,2,3,6,7,8-HxCDD	60.7	68.1	28 - 130	
1,2,3,7,8,9-HxCDD	25.3	5.26	131	25	13C-1,2,3,7,8,9-HxCDD	64.3	70.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	5220	1060	133	25	13C-1,2,3,4,6,7,8-HpCDD	48.6	71.0	23 - 140	
OCDD	35000	6680	136	25	13C-OCDD	30.4	34.1	17 - 157	
2,3,7,8-TCDF	64.5	8.83	152	25	13C-2,3,7,8-TCDF	55.0	80.3	24 - 169	
1,2,3,7,8-PeCDF	110	10.5	165	25	13C-1,2,3,7,8-PeCDF	61.6	73.1	24 - 185	
2,3,4,7,8-PeCDF	41.3	4.49	161	25	13C-2,3,4,7,8-PeCDF	61.5	72.0	21 - 178	
1,2,3,4,7,8-HxCDF	164	13.6	169	25	13C-1,2,3,4,7,8-HxCDF	67.2	73.1	26 - 152	
1,2,3,6,7,8-HxCDF	45.3	3.41	172	25	13C-1,2,3,6,7,8-HxCDF	61.2	66.3	26 - 123	
2,3,4,6,7,8-HxCDF	17.0	1.61	166	25	13C-2,3,4,6,7,8-HxCDF	62.6	67.5	28 - 136	
1,2,3,7,8,9-HxCDF	4.30	0.835	135	25	13C-1,2,3,7,8,9-HxCDF	65.2	73.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	259	42.4	144	25	13C-1,2,3,4,6,7,8-HpCDF	65.4	70.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	39.8	4.77	157	25	13C-1,2,3,4,7,8,9-HpCDF	68.5	71.7	26 - 138	
OCDF	1340	260	135	25	13C-OCDF	51.4	58.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	61.4	83.4	35 - 197	

LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight.
The sample size is reported in wet weight. Results reported to the MDL

Sample ID: PDI-075SC-B-06-08-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-08 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 16.5 g	QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39
Date Collected: 13-Oct-2019 7:35	% Solids: 61.9	Date Analyzed : 19-Mar-20 08:17 Column: ZB-5MS 24-Mar-20 14:36 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.97				IS 13C-2,3,7,8-TCDD	58.7	25 - 164	
1,2,3,7,8-PeCDD	4.71				13C-1,2,3,7,8-PeCDD	90.2	25 - 181	
1,2,3,4,7,8-HxCDD	4.91				13C-1,2,3,4,7,8-HxCDD	82.1	32 - 141	
1,2,3,6,7,8-HxCDD	37.5				13C-1,2,3,6,7,8-HxCDD	76.9	28 - 130	
1,2,3,7,8,9-HxCDD	15.5				13C-1,2,3,7,8,9-HxCDD	82.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	2340				13C-1,2,3,4,6,7,8-HpCDD	97.3	23 - 140	
OCDD	13000			D, B	13C-OCDD	43.2	17 - 157	D
2,3,7,8-TCDF	14.1				13C-2,3,7,8-TCDF	55.3	24 - 169	
1,2,3,7,8-PeCDF	17.9				13C-1,2,3,7,8-PeCDF	79.4	24 - 185	
2,3,4,7,8-PeCDF	18.0				13C-2,3,4,7,8-PeCDF	86.9	21 - 178	
1,2,3,4,7,8-HxCDF	27.9				13C-1,2,3,4,7,8-HxCDF	82.3	26 - 152	
1,2,3,6,7,8-HxCDF	11.7				13C-1,2,3,6,7,8-HxCDF	77.0	26 - 123	
2,3,4,6,7,8-HxCDF	9.04				13C-2,3,4,6,7,8-HxCDF	75.8	28 - 136	
1,2,3,7,8,9-HxCDF	3.61				13C-1,2,3,7,8,9-HxCDF	83.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	172				13C-1,2,3,4,6,7,8-HpCDF	82.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	8.64				13C-1,2,3,4,7,8,9-HpCDF	89.1	26 - 138	
OCDF	409				13C-OCDF	64.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	56.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 54.3

TOTALS				
Total TCDD	46.4			
Total PeCDD	102			
Total HxCDD	628			
Total HpCDD	4930			
Total TCDF	95.5	100		P
Total PeCDF	229			P
Total HxCDF	222			
Total HpCDF	583			

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-076SC-B-00-02-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-09 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 18.3 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 13:17	% Solids: 54.7	Date Analyzed : 02-Feb-20 21:21 Column: ZB-5MS 12-Mar-20 03:22 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.271		IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	0.233			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	0.294			J	13C-1,2,3,4,7,8-HxCDD	91.2	32 - 141	
1,2,3,6,7,8-HxCDD	1.50			J	13C-1,2,3,6,7,8-HxCDD	90.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.660			J	13C-1,2,3,7,8,9-HxCDD	96.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	41.7				13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	390			B	13C-OCDD	94.2	17 - 157	
2,3,7,8-TCDF	6.60				13C-2,3,7,8-TCDF	96.4	24 - 169	
1,2,3,7,8-PeCDF	8.61				13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	3.77				13C-2,3,4,7,8-PeCDF	98.0	21 - 178	
1,2,3,4,7,8-HxCDF	15.0				13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	3.68				13C-1,2,3,6,7,8-HxCDF	92.2	26 - 123	
2,3,4,6,7,8-HxCDF	1.19			J	13C-2,3,4,6,7,8-HxCDF	97.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.489			J	13C-1,2,3,7,8,9-HxCDF	108	29 - 147	
1,2,3,4,6,7,8-HpCDF	8.43				13C-1,2,3,4,6,7,8-HpCDF	100	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.27			J	13C-1,2,3,4,7,8,9-HpCDF	105	26 - 138	
OCDF	18.5				13C-OCDF	93.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin	5.21
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TOTALS		
Total TCDD	1.89	2.16
Total PeCDD	2.47	
Total HxCDD	14.3	
Total HpCDD	96.2	
Total TCDF	28.3	29.9
Total PeCDF	27.3	
Total HxCDF	29.5	29.6
Total HpCDF	23.1	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-076SC-B-02-05-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-10 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 17.5 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 13-Oct-2019 13:18	% Solids: 57.8	Date Analyzed : 03-Feb-20 00:38 Column: ZB-5MS 12-Mar-20 03:52 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.542				IS 13C-2,3,7,8-TCDD	93.9	25 - 164	
1,2,3,7,8-PeCDD	0.788			J	13C-1,2,3,7,8-PeCDD	95.4	25 - 181	
1,2,3,4,7,8-HxCDD	0.697			J	13C-1,2,3,4,7,8-HxCDD	88.3	32 - 141	
1,2,3,6,7,8-HxCDD	4.44				13C-1,2,3,6,7,8-HxCDD	87.0	28 - 130	
1,2,3,7,8,9-HxCDD	1.99			J	13C-1,2,3,7,8,9-HxCDD	89.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	88.1				13C-1,2,3,4,6,7,8-HpCDD	94.2	23 - 140	
OCDD	969			B	13C-OCDD	82.4	17 - 157	
2,3,7,8-TCDF	36.6				13C-2,3,7,8-TCDF	88.5	24 - 169	
1,2,3,7,8-PeCDF	51.1				13C-1,2,3,7,8-PeCDF	92.7	24 - 185	
2,3,4,7,8-PeCDF	22.8				13C-2,3,4,7,8-PeCDF	92.1	21 - 178	
1,2,3,4,7,8-HxCDF	91.0				13C-1,2,3,4,7,8-HxCDF	97.3	26 - 152	
1,2,3,6,7,8-HxCDF	25.3				13C-1,2,3,6,7,8-HxCDF	93.6	26 - 123	
2,3,4,6,7,8-HxCDF	6.14				13C-2,3,4,6,7,8-HxCDF	92.4	28 - 136	
1,2,3,7,8,9-HxCDF	2.06			J	13C-1,2,3,7,8,9-HxCDF	95.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	53.6				13C-1,2,3,4,6,7,8-HpCDF	93.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	18.7				13C-1,2,3,4,7,8,9-HpCDF	95.0	26 - 138	
OCDF	109				13C-OCDF	84.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 28.5

TOTALS		
Total TCDD	4.41	4.56
Total PeCDD	6.58	
Total HxCDD	38.1	
Total HpCDD	192	
Total TCDF	115	119
Total PeCDF	137	140
Total HxCDF	166	
Total HpCDF	127	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-076SC-B-05-07-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903654-11 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 16.3 g	QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39
Date Collected: 13-Oct-2019 13:19	% Solids: 61.3	Date Analyzed : 19-Mar-20 09:05 Column: ZB-5MS 24-Mar-20 15:08 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.25				IS 13C-2,3,7,8-TCDD	74.9	25 - 164	
1,2,3,7,8-PeCDD	3.39				13C-1,2,3,7,8-PeCDD	88.3	25 - 181	
1,2,3,4,7,8-HxCDD	3.86				13C-1,2,3,4,7,8-HxCDD	79.8	32 - 141	
1,2,3,6,7,8-HxCDD	29.4				13C-1,2,3,6,7,8-HxCDD	71.6	28 - 130	
1,2,3,7,8,9-HxCDD	10.7				13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1320				13C-1,2,3,4,6,7,8-HpCDD	108	23 - 140	
OCDD	13800			D, B	13C-OCDD	73.8	17 - 157	D
2,3,7,8-TCDF	167				13C-2,3,7,8-TCDF	71.2	24 - 169	
1,2,3,7,8-PeCDF	265				13C-1,2,3,7,8-PeCDF	82.8	24 - 185	
2,3,4,7,8-PeCDF	118				13C-2,3,4,7,8-PeCDF	83.1	21 - 178	
1,2,3,4,7,8-HxCDF	429				13C-1,2,3,4,7,8-HxCDF	79.9	26 - 152	
1,2,3,6,7,8-HxCDF	112				13C-1,2,3,6,7,8-HxCDF	74.8	26 - 123	
2,3,4,6,7,8-HxCDF	29.5				13C-2,3,4,6,7,8-HxCDF	77.7	28 - 136	
1,2,3,7,8,9-HxCDF	43.1				13C-1,2,3,7,8,9-HxCDF	86.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	299				13C-1,2,3,4,6,7,8-HpCDF	89.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	83.9				13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	818				13C-OCDF	94.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	70.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 153

TOTALS								
Total TCDD	22.7							
Total PeCDD	34.2		34.4					
Total HxCDD	300							
Total HpCDD	2880							
Total TCDF	617		641	P				
Total PeCDF	763		784	P				
Total HxCDF	846							
Total HpCDF	931							

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: # Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

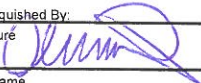

Project: Gasco PDI
Client: NW Natural

COC ID: VIST1-20191013-143451
Sample Custodian: SN
Lab: VISTA - Archive

1903654 3.8°C, 3.6°C

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-073SC-B-00-02-191013	N	SE	10/13/2019	10:37	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-073SC-B-02-04-191013	N	SE	10/13/2019	10:37	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-073SC-B-04-06-191013	N	SE	10/13/2019	10:37	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-073SC-B-06-08-191013	N	SE	10/13/2019	10:37	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-075SC-B-00-02-191013	N	SE	10/13/2019	7:35	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
006	PDI-075SC-B-02-04-191013	N	SE	10/13/2019	7:35	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
007	PDI-075SC-B-04-06-191013	N	SE	10/13/2019	7:35	1	<input checked="" type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
008	PDI-075SC-B-06-08-191013	N	SE	10/13/2019	7:35	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
009	PDI-076SC-B-00-02-191013	N	SE	10/13/2019	13:17	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
010	PDI-076SC-B-02-05-191013	N	SE	10/13/2019	13:18	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
011	PDI-076SC-B-05-07-191013	N	SE	10/13/2019	13:19	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature: 	Received By: Signature: 	Relinquished By: Signature:	Received By: Signature:	Relinquished By: Signature:	Received By: Signature:
Print Name: C. OREIRO	Print Name: Hayden Gamar	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: IVAL	Company:	Company:	Company:	Company:
Date/Time: 10/14/19 07:55	Date/Time: 10/15/19 08:51	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: # Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

1903654

COC ID: VIST1-20191013-143451
Sample Custodian: SN
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-076SC-B-05-07-191013	N	SE	10/13/2019	13:19	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: C. ORRARD	Print Name: Hayden Gamar	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 10/14/19 0755	Date/Time: 10/15/19 08:51	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1903654

 TAT std

Samples Arrival:	Date/Time 10/15/19 08:51	Initials: HDG	Location: WR-2
			Shelf/Rack: NA
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GSO	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: 3.8 (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N		Thermometer ID: IR-4
Temp °C: 3.8 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 4</u> Trk # <u>7767 1463 7378</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="radio"/> Vista	<input checked="" type="radio"/> Client	<input type="radio"/> Retain
			<input checked="" type="radio"/> Return
			<input type="radio"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time 10/16/19 1200	Initials: WMS	Location: WF-2
			Shelf/Rack: D-1
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903654

TAT std

Samples Arrival:	Date/Time: 10/15/19 0851	Initials: WWS	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GSO	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 3.6 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 3.6 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>4 of 4</u> Trk # <u>7767 1463 8021</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
		<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? <u>COC present in other codes</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Logged In:	Date/Time: 10/16/19 1200	Initials: WWS	Location: WF-2
			Shelf/Rack: D-1
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903654

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	BaseMatrix	Sample Comments
4	1903654-01 A PDI-073SC-B-00-02-191013	<input checked="" type="checkbox"/>		001	13-Oct-19 10:37	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903654-02 A PDI-073SC-B-02-04-191013	<input checked="" type="checkbox"/>		002	13-Oct-19 10:37	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903654-03 A PDI-073SC-B-04-06-191013	<input checked="" type="checkbox"/>		003	13-Oct-19 10:37	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903654-04 A PDI-073SC-B-06-08-191013	<input checked="" type="checkbox"/>		004	13-Oct-19 10:37	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903654-05 A PDI-075SC-B-00-02-191013	<input checked="" type="checkbox"/>		005	13-Oct-19 07:35	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903654-06 A PDI-075SC-B-02-04-191013	<input checked="" type="checkbox"/>		006	13-Oct-19 07:35	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903654-07 A PDI-075SC-B-04-06-191013	<input checked="" type="checkbox"/>		007	13-Oct-19 07:35	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	Dup
2	1903654-08 A PDI-075SC-B-06-08-191013	<input checked="" type="checkbox"/>		008	13-Oct-19 07:35	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903654-09 A PDI-076SC-B-00-02-191013	<input checked="" type="checkbox"/>		009	13-Oct-19 13:17	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903654-10 A PDI-076SC-B-02-05-191013	<input checked="" type="checkbox"/>		010	13-Oct-19 13:18	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903654-11 A PDI-076SC-B-05-07-191013	<input checked="" type="checkbox"/>		011	13-Oct-19 13:19	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

"2" = cooler 2
"4" = cooler 4

Verified by/Date: HDC 10/17/19

EXTRACTION INFORMATION

Process Sheet

Workorder: 1903654

Prep Expiration: 2020-10-12
 Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 80

Method: 1613 Full List
 Matrix: Solid
 Client Matrix: Sediment
 Also run: Percent Solids

Prep Batch: BOA0056

Prep Data Entered: RR 01/14/20
 Date and Initials

Initial Sequence: SOB0001

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903654-01 A	<input checked="" type="checkbox"/>	PDI-073SC-B-00-02-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-02 A	<input checked="" type="checkbox"/>	PDI-073SC-B-02-04-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-03 A	<input checked="" type="checkbox"/>	PDI-073SC-B-04-06-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-04 A	<input checked="" type="checkbox"/>	PDI-073SC-B-06-08-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-05 A	<input checked="" type="checkbox"/>	PDI-075SC-B-00-02-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-06 A	<input checked="" type="checkbox"/>	PDI-075SC-B-02-04-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-07 A	<input checked="" type="checkbox"/>	PDI-075SC-B-04-06-191013	15-Oct-19 08:51	WF-2 D-1	Dup
1903654-08 A	<input checked="" type="checkbox"/>	PDI-075SC-B-06-08-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-09 A	<input checked="" type="checkbox"/>	PDI-076SC-B-00-02-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-10 A	<input checked="" type="checkbox"/>	PDI-076SC-B-02-05-191013	15-Oct-19 08:51	WF-2 D-1	
1903654-11 A	<input checked="" type="checkbox"/>	PDI-076SC-B-05-07-191013	15-Oct-19 08:51	WF-2 D-1	

WO Comments: ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

Dioxin - 10g (dry weight)

~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

Pre-Prep Check Out: RR 01/03/20
 Pre-Prep Check In: RR 01/03/20

Prep Check Out: BOB 01/09/20
 Prep Check In: BOB 01/09/20

Prep Reconciled Initials/Date: RR 01/03/20
 Spike Reconciled Initials/Date: BOB 01/09/20
 VialBoxID: cherry spritz

Batch: B0A0056

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903654-01	15.31	65.69037	10.0572	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-02	15.72	64.23488	10.0977	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-03	12.66	79.71014	10.0913	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-04	15.45	64.91936	10.0300	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-05	20.19	49.79167	10.0529	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-06	17.76	56.59656	10.0515	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-07	16.7	60.42781	10.0914	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-08	16.33	61.85567	10.1010	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-09	18.3	54.70942	10.0118	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-10	17.48	57.75701	10.0959	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-11	16.56	61.33909	10.1578	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-01	19.01	53.13284	10.1006	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-02	18.69	54.08561	10.1086	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-03	17.03	59.06041	10.0580	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-04	17.29	57.84754	10.0018	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-05	17.51	57.85582	10.1306	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-06	17.49	57.59637	10.0736	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-07	16.2	61.82171	10.0151	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-08	14.01	71.875	10.0697	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
B0A0056-BLK1	10			20	09-Jan-20 08:08	BNB				QC
B0A0056-BS1	10			20	09-Jan-20 08:08	BNB	18F1913 ✓	10 ✓		QC
B0A0056-DUP1	16.6	60.42781	10.0510	20	09-Jan-20 08:08	BNB				QC

All bolded data on report verified against written benchsheet by (initial/date) U 01/14/20

PREPARATION BENCH SHEET

Matrix: Solid

B0A0056

Chemist: Bob

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 09-Jan-20 08:08

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0A0056-BLK1	NA	(10.00)	2 Bob 01/09/20	2 01/13/20	2 01/13/20	2 01/13/20	2 01/13/20	2 01/13/20	2 2 01/14/20
<input type="checkbox"/>	B0A0056-BS1		(10.00)							
<input type="checkbox"/>	B0A0056-DUP1 1903654-07	16.55 16.18	16.60			2 01/13/20				
<input type="checkbox"/>	1903654-01	15.22	15.31			2 01/13/20				
<input type="checkbox"/>	1903654-02	15.57	15.72							
<input type="checkbox"/>	1903654-03	12.55	12.66							
<input type="checkbox"/>	1903654-04	15.40	15.45							
<input type="checkbox"/>	1903654-05	20.08	20.19							
<input type="checkbox"/>	1903654-06	17.67	17.76							
<input type="checkbox"/>	1903654-07	16.55	16.70			2 01/13/20				
<input type="checkbox"/>	1903654-08	16.17	16.33							
<input type="checkbox"/>	1903654-09	18.28	18.30							
<input type="checkbox"/>	1903654-10	17.31	17.48							
<input type="checkbox"/>	1903654-11	16.30	16.50							
<input type="checkbox"/>	1903827-01	18.82	19.01							

IS Name <u>V3</u>	NS Name <u>V5</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: Chemist/Date: <u>Bob 01/09/20</u>
PCDD/F <u>1912301, 10µL</u>	PCDD/F <u>18F1913, 10µL</u>	PCDD/F <u>1A16 02, 10µL</u>	PCDD/F <u>1911603, 10µL</u>	Start Date/Time <u>01/09/20 1330</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>Bob 01/09/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/10/20 600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>20µL</u>	
					<u>CM</u>	

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume

- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

Bob 01/09/20

PREPARATION BENCH SHEET

Matrix: Solid

Method: 1613 Full List

B0A0056

Prepared using: HRMS - Soxhlet

Chemist: Bob

Prep Date/Time: 09-Jan-20 08:08

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1903827-02	18.49	18.69	<u>Bob 01/09/20</u>	<u>Bob 01/13/20</u>	<u>01/13/20</u>	<u>01/13/20</u>	<u>01/13/20</u>	<u>01/13/20</u>	<u>01/14/20</u>
<input type="checkbox"/>	1903827-03	16.93	17.03							
<input type="checkbox"/>	1903827-04	17.29	17.29							
<input type="checkbox"/>	1903827-05	17.28	17.51							
<input type="checkbox"/>	1903827-06	17.36	17.49							
<input type="checkbox"/>	1903827-07	16.18	16.20							
<input type="checkbox"/>	1903827-08	13.91	14.01							

- (A) Not enough microsoxhlets. used HL and 4 solvent ^{Bob 01/09/20} fine-ringed. Bob 01/09/20
- (B) 01/13/20
- (C) Not all Samples Acid Partitioned 01/13/20
- (D) Turned ABSG column back 01/13/20
- (E) Sample was elute w/ DCM during first elution. Sample was collected right away. Additional DCM was added. Sample was then concentrated & re-florisil. D# 01/13/19
- (F) 01/14/20

IS Name <u>V7</u>	NS Name <u>V5</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: Chemist/Date: <u>Bob 01/09/20</u>
PCDD/F <u>19L2301, 10µL</u>	PCDD/F <u>18F1913, 10µL</u>	PCDD/F <u>19I1602, 10µL</u>	PCDD/F <u>19I1603, 10µL</u>	Start Date/Time <u>01/09/20 1530</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>Bob 01/09/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/10/20 600</u>	Other <u>PA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>20µL</u>	
					<u>CM</u>	

Comments:
 1 = Sample approached dryness on rotovap
 2 = Sample bumped on rotovap; lost < 5%
 3 = Sample poured through Na2SO4 to remove water
 4 = Precipitate present at Final Volume

5 = Sample homogenized in secondary container
 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0069

Analyst: RR ✓ Analyte: Dried at 110°C+/-5°C Oven ID: O-2 ✓	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) <i>B.B. 01/09/20</i>
--	---------------------------------------	--

Inst: HRMS-8 ✓
 Date/Time IN: 01/03/20 1325 ✓ Date/Time OUT: 01/07/20 0940 ✓

B		C		D	E		F	G	H	I	K		L	M	N	O	P	
Particle Size	SampleID		SampType	Intial and Date:	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	RR 01/03/20 ✓	Dry Pan and Sample Weight (g)	ME 01/07/20 ✓	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	RR 01/03/20 ✓	Sample Homogenized*
	1903654-01	A ✓	Sample		1.2700 ✓	6.0500 ✓	✓	4.4100 ✓	✓	3.1400	65.69	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-02	A ✓	Sample		1.2700 ✓	6.8900 ✓	✓	4.8800 ✓	✓	3.6100	64.23	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-03	A ✓	Sample		1.2800 ✓	6.1100 ✓	✓	5.1300 ✓	✓	3.8500	79.71	SAND ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-04	A ✓	Sample		1.2900 ✓	6.2500 ✓	✓	4.5100 ✓	✓	3.2200	64.92	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-05	A ✓	Sample		1.2900 ✓	6.0900 ✓	✓	3.6800 ✓	✓	2.3900	49.79	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-06	A ✓	Sample		1.3000 ✓	6.5300 ✓	✓	4.2600 ✓	✓	2.9600	56.60	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-07	A ✓	Sample		1.3000 ✓	6.9100 ✓	✓	4.6900 ✓	✓	3.3900	60.43	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-08	A ✓	Sample		1.2800 ✓	6.1300 ✓	✓	4.2800 ✓	✓	3.0000	61.86	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-09	A ✓	Sample		1.2800 ✓	6.2700 ✓	✓	4.0100 ✓	✓	2.7300	54.71	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-10	A ✓	Sample		1.2700 ✓	6.6200 ✓	✓	4.3600 ✓	✓	3.0900	57.76	MUD ✓	NA	NA	NA	NA	✓	YES ✓
	1903654-11	A ✓	Sample		1.2600 ✓	5.8900 ✓	✓	4.1000 ✓	✓	2.8400	61.34	MUD ✓	NA	NA	NA	NA	✓	YES ✓

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0069

Analyst: RR	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) _____
Analyte: Dried at 110°C+/-5°C	Units: %	
Oven ID: 01 02		

Inst HRMS-8

Date/Time IN: **01-03-20 13:25** Date/Time OUT: **01/03/20 09:46**

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	RR 01/03/20				Sample Homogenized*
			Pan Tare Wt. (gms)	ME 01/07/20					Visual Inspection	Cl-	pH Before	pH After	
	1903654-01 A	Sample	1.27	RR 01/03/20	6.05	4.41							X
	1903654-02 A	Sample	1.27		6.89	4.88							X
	1903654-03 A	Sample	1.28		6.11	5.13							X
	1903654-04 A	Sample	1.29		6.25	4.51							X
	1903654-05 A	Sample	1.29		6.09	3.68							X
	1903654-06 A	Sample	1.30		6.53	4.26							X
	1903654-07 A	Sample	1.30		6.91	4.69							X
	1903654-08 A	Sample	1.28		6.13	4.28							X
	1903654-09 A	Sample	1.28		6.27	4.01							X
	1903654-10 A	Sample	1.27		6.62	4.36							X
	1903654-11 A	Sample	1.26		5.89	4.10							X

*Sample homogenized in sample container unless otherwise noted.



Process Sheet

Workorder: 1903654

RX ASAP

03/17/20

Prep Expiration: 2020-10-12
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 80

Method: 1613 Full List
Matrix: Solid

Prep Batch: BOC0209

Client Matrix: Sediment
Also run: Percent Solids

Prep Data Entered: A2 03/18/20
Date and Initials

Initial Sequence:

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	Percent Solids
1903654-05	A <input checked="" type="checkbox"/>	PDI-075SC-B-00-02-191013	15-Oct-19 08:51	WR-2 G-5	Percent Solids
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	Percent Solids
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	Percent Solids
1903654-08	A <input checked="" type="checkbox"/>	PDI-075SC-B-06-08-191013	15-Oct-19 08:51	WR-2 G-5	Percent Solids
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	
[REDACTED]	<input type="checkbox"/>	[REDACTED]	15-Oct-19 08:51	WR-2 G-5	
1903654-11	A <input checked="" type="checkbox"/>	PDI-076SC-B-05-07-191013	15-Oct-19 08:51	WR-2 G-5	

WO Comments: [REDACTED]

Dioxin - 10g (dry weight)

[REDACTED]

RR 03/17/20

AO 03/17/20

Pre-Prep Check Out: NA

Prep Check Out: RR 03/17/20

Prep Reconciled Initials/Date: RR 03/17/20

Pre-Prep Check In: NA

Prep Check In: RR 03/17/20

Spike Reconciled Initials/Date: AO 03/17/20

Vial/Box ID: Top over LV

PREPARATION BENCH SHEET

Matrix: Solid

B0C0209

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 17-Mar-20 10:39

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0C0209-BLK1	NA	(10.00)	AO RR 03/17/20	AO AZ 03/18/20	AZ 03/18/20	AO AZ 03/18/20	AO AZ 03/18/20	AO 03/18/20	AO AZ 03/18/20
<input type="checkbox"/>	B0C0209-BS1	NA	(10.00)	T	T	T	T	T	T	T
<input type="checkbox"/>	1903654-05RE3	20.08	20.09	T	T	T	black	T	T	T
<input type="checkbox"/>	1903654-08RE3	16.17	16.51	T	T	T	T	T	T	T
<input type="checkbox"/>	1903654-11RE3	16.30	16.31	T	T	T	T	T	T	T
<input type="checkbox"/>	1903827-05RE3	17.28	17.29	T	T	T	T	T	T	T
<input type="checkbox"/>	1904161-16RE5	17.58	17.88	T	T	T	T	T	T	T
<input type="checkbox"/>	2000142-16RE1	13.67	13.77	T	T	NA	T	T	T	T

V5

V3

V3

V3

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: RR 03/17/20
PCDD/F 1912301, 10uL	PCDD/F 18F1913, 10uL	PCDD/F 1911602, 10uL	PCDD/F 1911603, 10uL	Start Date/Time 03-17-20 1349	SOLV: Toluene	Check In: Chemist/Date: RR 03/17/20
PCB	PCB	PCB	PCB	Stop Date/Time 03-17-20 1055	Other: NA	Balance ID: HRMS-10
PAH	PAH	PAH	PAH	Final Volume(s) C14 20uL		

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903654-05RE3	20.09 ✓	49.79167	10.0031	20 ✓	17-Mar-20 10:39	ACO ✓			Sediment	1613 Full List
1903654-05RE4	20.09	49.79167	10.0031	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-08RE3	16.51 ✓	61.85567	10.2124	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-08RE4	16.51	61.85567	10.2124	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-11RE3	16.31 ✓	61.33909	10.0044	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-11RE4	16.31	61.33909	10.0044	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903827-05RE3	17.29 ✓	57.85582	10.0033	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903827-05RE4	17.29	57.85582	10.0033	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1904161-16RE5	17.88 ✓	56.88074	10.1703	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1904161-16RE6	17.88	56.88074	10.1703	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
2000142-16RE1	13.77 ✓	73.16018	10.0742	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
B0C0209-BLK1	10			20	17-Mar-20 10:39	ACO				QC
B0C0209-BS1	10			20 ✓	17-Mar-20 10:39	ACO	*18F1913 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) AZ 03/24/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time
Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

ht 3-13-2020

07 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.988	10.000	25.736		1.001				0.0658	
2	1,2,3,7,8-PeCDD			NO	0.972	10.000	30.657		1.001				0.0645	
3	1,2,3,4,7,8-HxCDD			NO	1.07	10.000	33.997		1.000				0.0572	
4	1,2,3,6,7,8-HxCDD			NO	0.921	10.000	34.094		1.000				0.0574	
5	1,2,3,7,8,9-HxCDD			NO	0.918	10.000	34.405		1.001				0.0611	
6	1,2,3,4,6,7,8-HpCDD			NO	0.923	10.000	37.928		1.000				0.0972	
7	OCDD	7.52e2	0.85	NO	0.975	10.000	40.910	40.92	1.000	1.000	0.24620		0.0872	0.246
8	2,3,7,8-TCDF			NO	0.802	10.000	24.862		1.001				0.0472	
9	1,2,3,7,8-PeCDF			NO	0.907	10.000	29.391		1.001				0.0439	
10	2,3,4,7,8-PeCDF			NO	0.952	10.000	30.361		1.001				0.0399	
11	1,2,3,4,7,8-HxCDF			NO	0.862	10.000	33.125		1.000				0.0407	
12	1,2,3,6,7,8-HxCDF			NO	0.841	10.000	33.252		1.000				0.0406	
13	2,3,4,6,7,8-HxCDF			NO	0.898	10.000	33.861		1.001				0.0442	
14	1,2,3,7,8,9-HxCDF	4.44e2	0.89	YES	0.858	10.000	34.733	34.74	1.000	1.000	0.097248		0.0693	0.0829
15	1,2,3,4,6,7,8-HpCDF			NO	0.851	10.000	36.516		1.001				0.0667	
16	1,2,3,4,7,8,9-HpCDF			NO	0.980	10.000	38.503		1.000				0.0732	
17	OCDF			NO	0.806	10.000	41.102		1.000				0.0935	
18	13C-2,3,7,8-TCDD	1.52e6	0.80	NO	1.20	10.000	25.706	25.70	1.026	1.026	188.04	94.0	0.183	
19	13C-1,2,3,7,8-PeCDD	1.23e6	0.63	NO	0.967	10.000	30.450	30.64	1.215	1.222	188.23	94.1	0.186	
20	13C-1,2,3,4,7,8-HxCDD	9.54e5	1.28	NO	0.874	10.000	33.988	33.99	1.014	1.014	164.06	82.0	0.297	
21	13C-1,2,3,6,7,8-HxCDD	1.11e6	1.28	NO	1.05	10.000	34.089	34.09	1.017	1.017	159.88	79.9	0.248	
22	13C-1,2,3,7,8,9-HxCDD	1.06e6	1.24	NO	0.974	10.000	34.390	34.37	1.026	1.025	163.61	81.8	0.266	
23	13C-1,2,3,4,6,7,8-HpCDD	7.98e5	1.01	NO	0.747	10.000	37.944	37.92	1.132	1.131	160.49	80.2	0.439	
24	13C-OCDD	1.25e6	0.88	NO	0.707	10.000	40.826	40.91	1.218	1.221	266.75	66.7	0.295	
25	13C-2,3,7,8-TCDF	2.07e6	0.77	NO	1.07	10.000	24.887	24.84	0.993	0.991	170.19	85.1	0.280	
26	13C-1,2,3,7,8-PeCDF	2.04e6	1.59	NO	1.00	10.000	29.222	29.37	1.166	1.172	178.52	89.3	0.360	
27	13C-2,3,4,7,8-PeCDF	1.97e6	1.59	NO	0.962	10.000	30.175	30.33	1.204	1.210	179.28	89.6	0.375	
28	13C-1,2,3,4,7,8-HxCDF	1.29e6	0.51	NO	1.05	10.000	33.117	33.13	0.988	0.988	184.90	92.5	0.325	
29	13C-1,2,3,6,7,8-HxCDF	1.42e6	0.52	NO	1.19	10.000	33.217	33.24	0.991	0.992	179.18	89.6	0.287	
30	13C-2,3,4,6,7,8-HxCDF	1.23e6	0.52	NO	1.07	10.000	33.824	33.83	1.009	1.009	173.16	86.6	0.320	
31	13C-1,2,3,7,8,9-HxCDF	1.06e6	0.52	NO	0.922	10.000	34.726	34.73	1.036	1.036	173.32	86.7	0.370	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.76e5	0.44	NO	0.767	10.000	36.469	36.48	1.088	1.088	171.68	85.8	0.422	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.97e5	0.44	NO	0.552	10.000	38.480	38.50	1.148	1.149	162.31	81.2	0.586	
34	34 13C-OCDF	1.44e6	0.87	NO	0.789	10.000	41.061	41.10	1.225	1.226	273.60	68.4	0.231	
35	35 37Cl-2,3,7,8-TCDD	6.16e5			1.18	10.000	25.739	25.74	1.027	1.027	77.455	96.8	0.0503	
36	36 13C-1,2,3,4-TCDD	1.35e6	0.79	NO	1.00	10.000	25.080	25.06	1.000	1.000	200.00	100	0.219	
37	37 13C-1,2,3,4-TCDF	2.28e6	0.79	NO	1.00	10.000	23.420	23.42	1.000	1.000	200.00	100	0.298	
38	38 13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.00	10.000	33.520	33.52	1.000	1.000	200.00	100	0.341	
39	39 Total Tetra-Dioxins				0.988	10.000	24.620		0.000				0.0404	
40	40 Total Penta-Dioxins				0.972	10.000	29.960		0.000				0.0264	
41	41 Total Hexa-Dioxins				0.921	10.000	33.635		0.000				0.0297	
42	42 Total Hepta-Dioxins				0.923	10.000	37.640		0.000				0.0501	
43	43 Total Tetra-Furans				0.802	10.000	23.610		0.000				0.0191	
44	44 1st Func. Penta-Furans				0.907	10.000	27.090		0.000				0.0116	
45	45 Total Penta-Furans				0.907	10.000	29.275		0.000				0.0190	
46	46 Total Hexa-Furans				0.898	10.000	33.555		0.000		0.00000		0.0251	0.0829
47	47 Total Hepta-Furans				0.851	10.000	37.835		0.000				0.0353	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.74	4.104e3	4.357e3	2.094e2	2.343e2	0.89	YES	4.437e2	0.00000	0.082917	0.0593

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

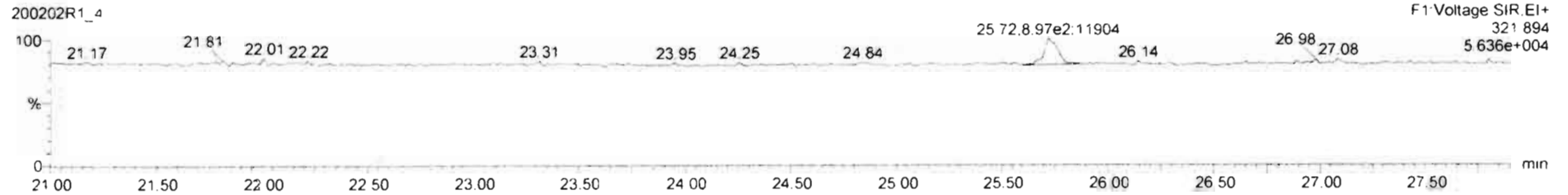
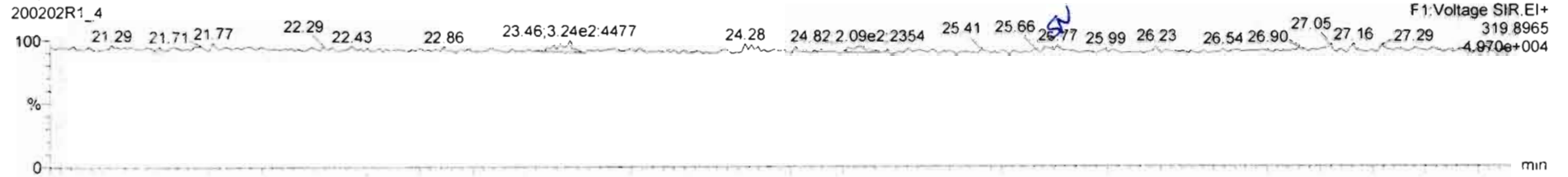
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

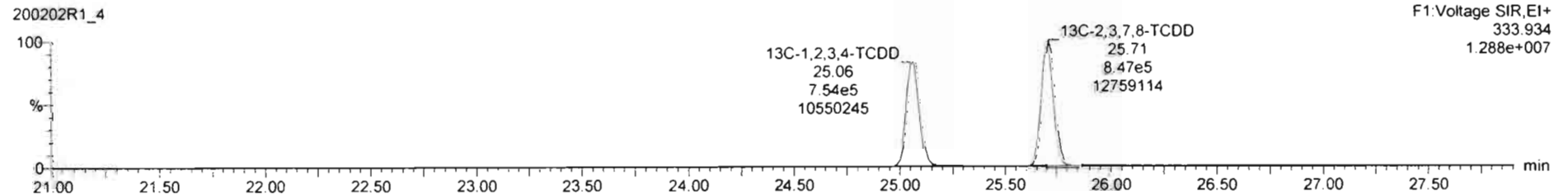
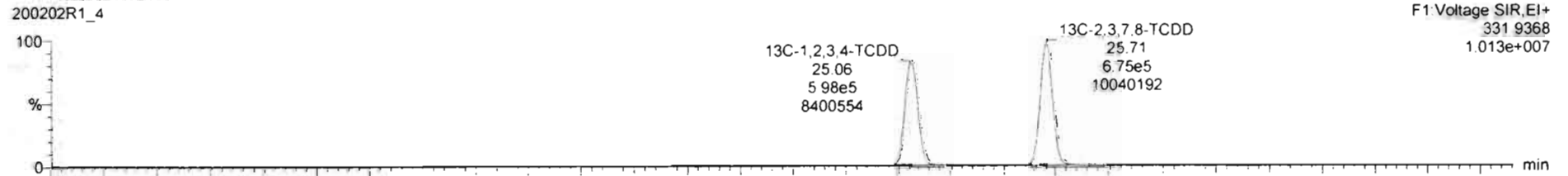
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

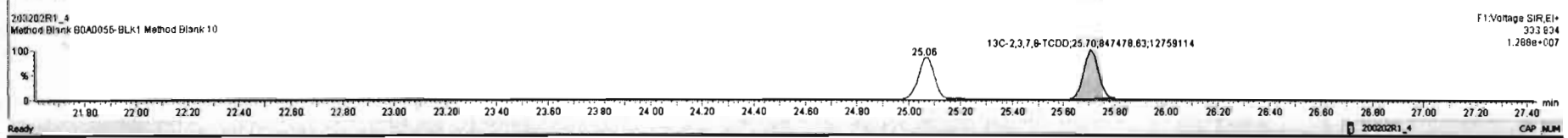
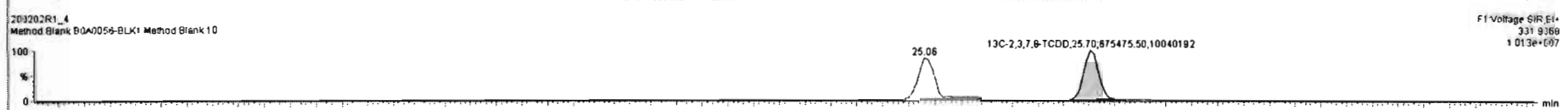
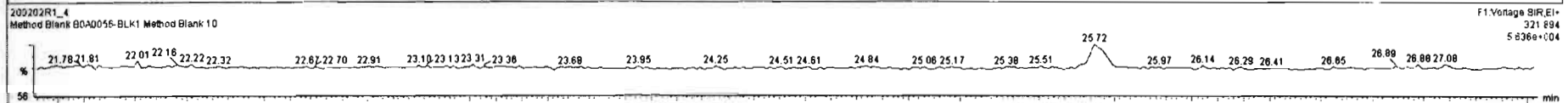
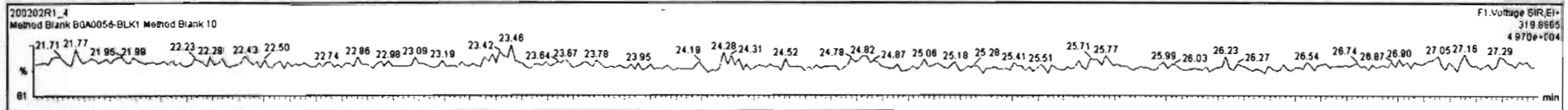


13C-2,3,7,8-TCDD



SI	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.22e6	0.52	NO	1.0662	10.000	33.83	1.009	173	86.6	0.320	
31	13C-1,2,3,7,8-HxCDF	1.06e6	0.52	NO	0.9224	10.000	34.73	1.036	173	86.7	0.370	
32	13C-1,2,3,4,6,7,8-HpCDF	8.75e5	0.44	NO	0.7672	10.000	36.48	1.068	172	85.8	0.422	
33	13C-1,2,3,4,7,8-HpCDF	5.97e5	0.44	NO	0.5623	10.000	36.50	1.149	162	81.2	0.586	
34	13C-OCDF	1.44e6	0.87	NO	0.7894	10.000	41.10	1.226	274	88.4	0.231	
35	37Cl-2,3,7,8-TCDD	8.18e5			1.1763	10.000	25.74	1.027	77.5	98.8	0.0503	
36	13C-1,2,3,4-TCDD	1.35e6	0.79	NO	1.0000	10.000	25.06	1.000	200	100	0.218	
37	13C-1,2,3,4-TCDF	2.29e6	0.79	NO	1.0000	10.000	23.42	1.000	200	100	0.296	
38	13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.0000	10.000	33.52	1.000	200	100	0.341	
39	Total Tetra-Chlorine				0.9681	10.000					0.0404	
40	Total Penta-Chlorine				0.9723	10.000			0.000		0.0284	0.0614

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



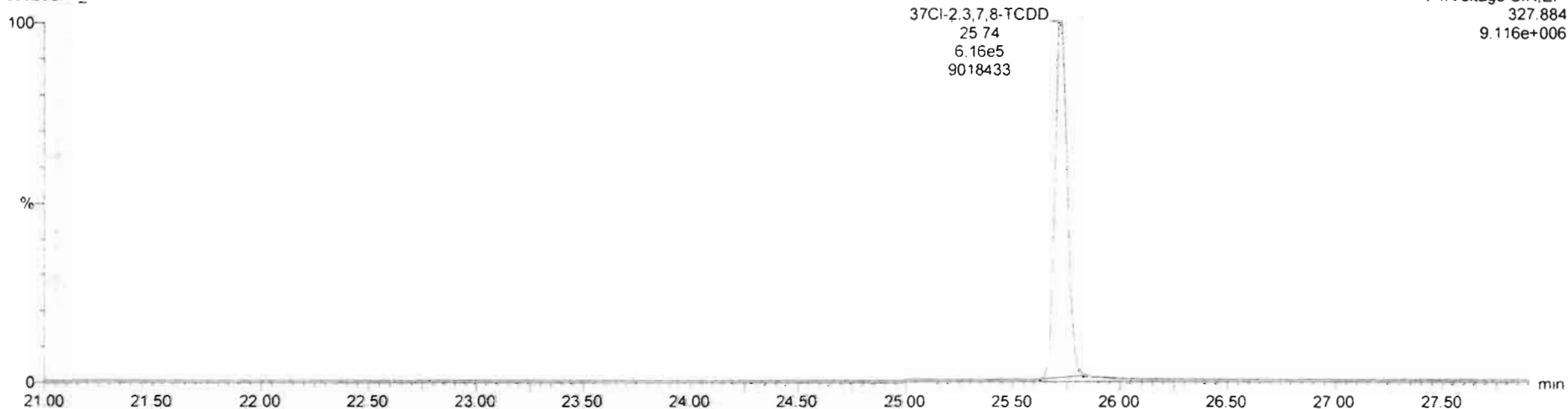
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Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

37Cl-2,3,7,8-TCDD

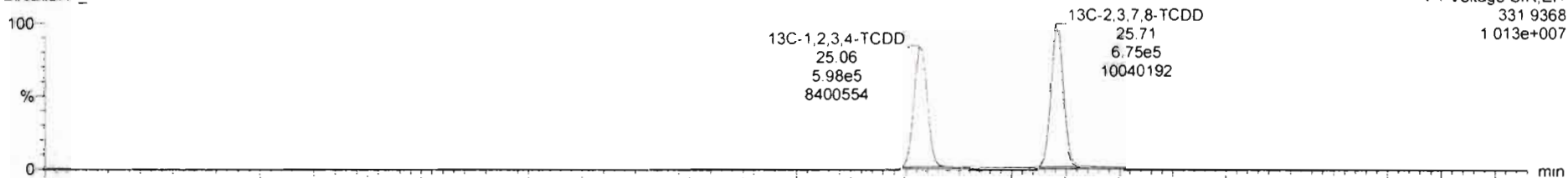
200202R1_4



F1: Voltage SIR, EI+
327.884
9.116e+006

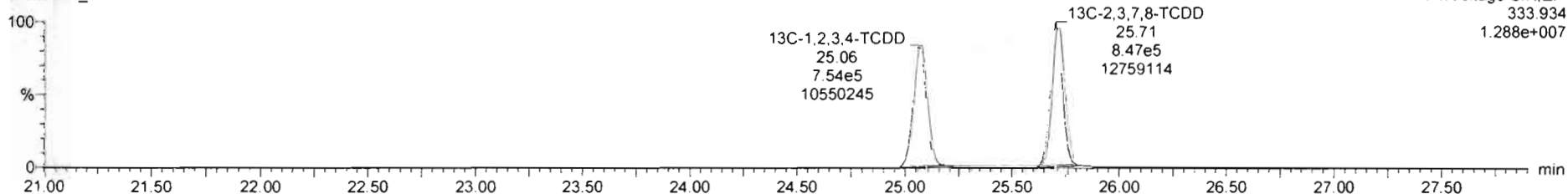
13C-1,2,3,4-TCDD

200202R1_4



F1: Voltage SIR, EI+
331.9368
1.013e+007

200202R1_4



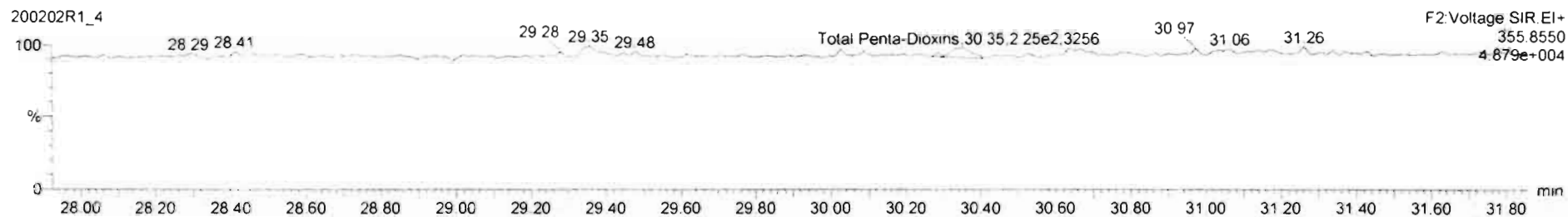
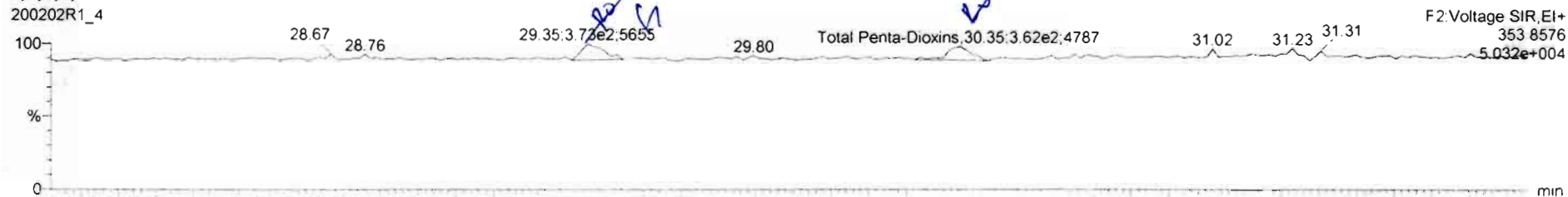
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Dataset: Untitled

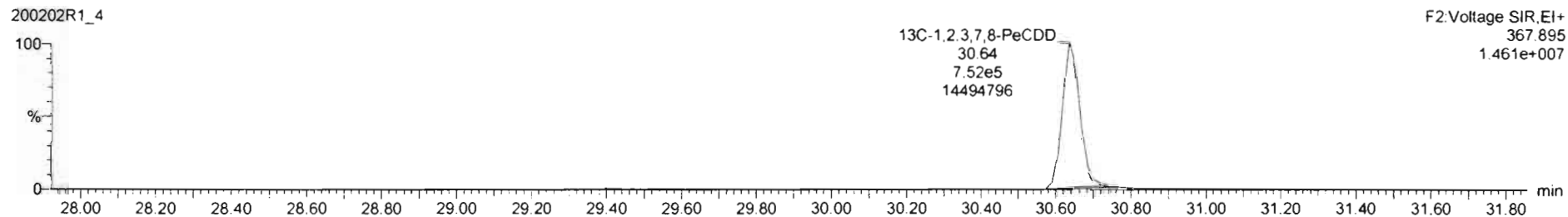
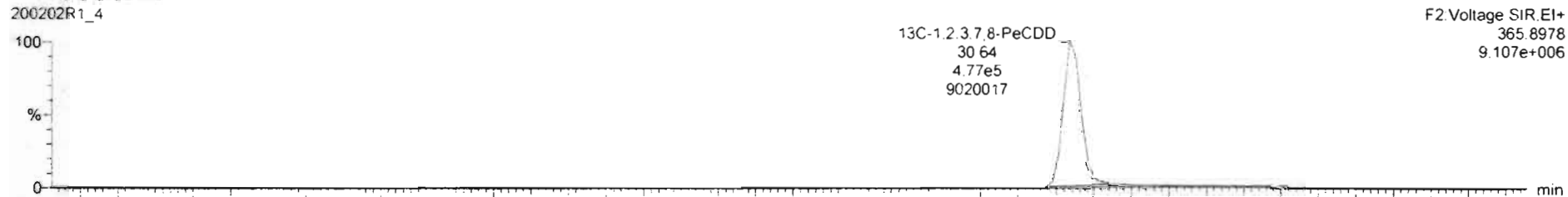
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD



Dataset: Untitled

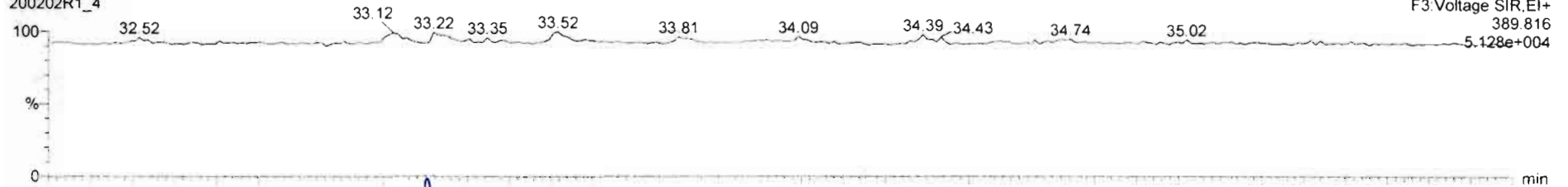
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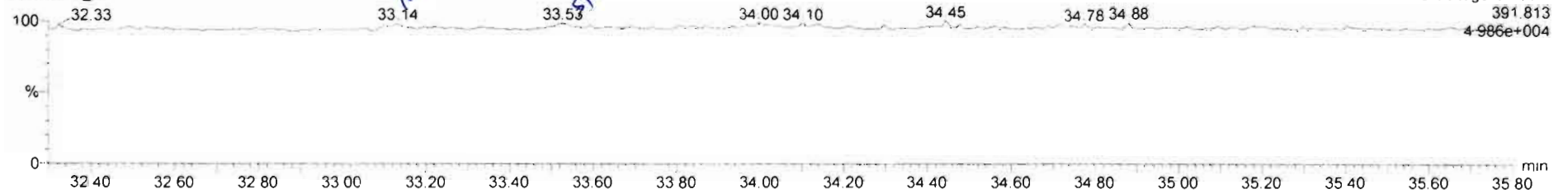
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1,2,3,4,7,8-HxCDD

200202R1_4

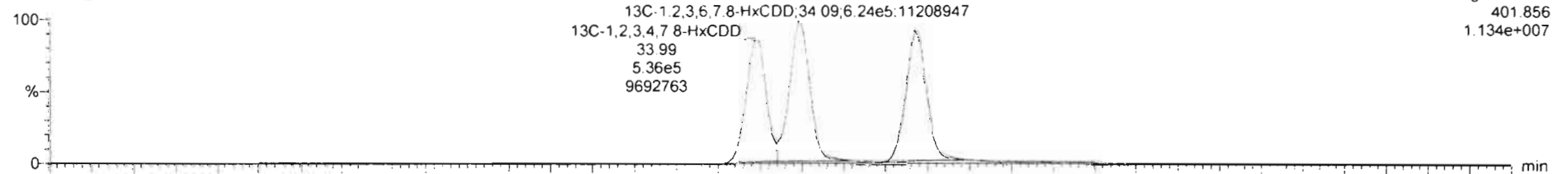


200202R1_4

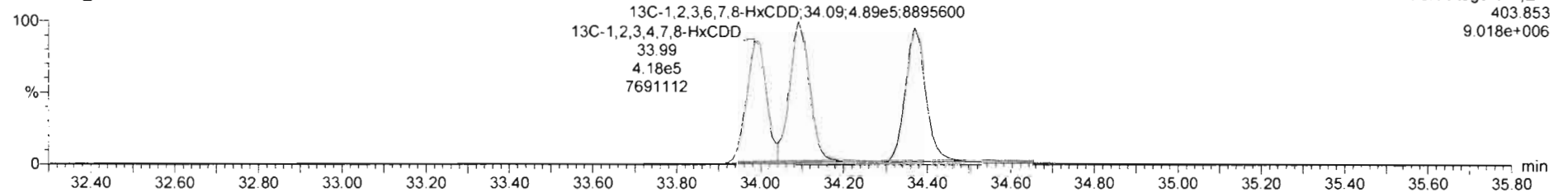


13C-1,2,3,4,7,8-HxCDD

200202R1_4

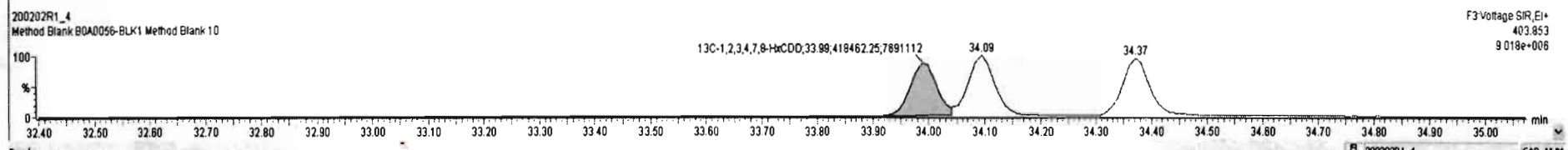
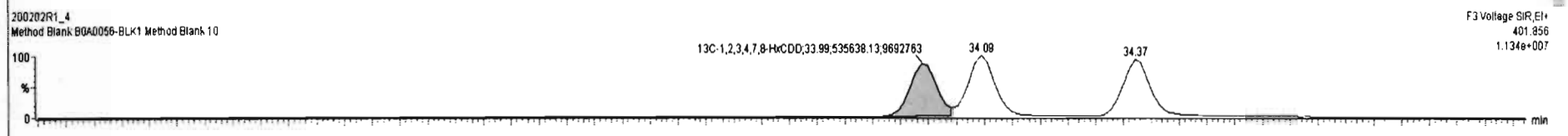
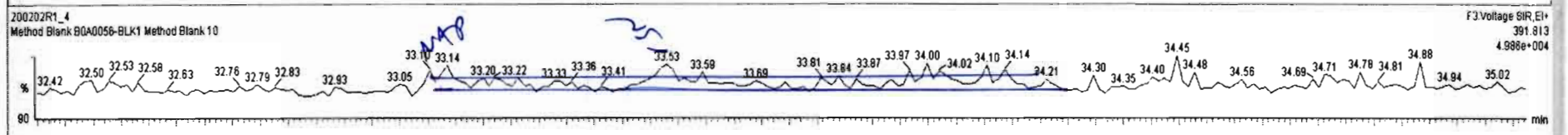
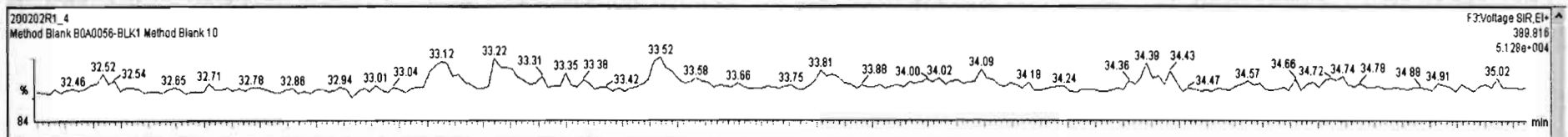


200202R1_4



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8020	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8982	10.000			0.000		0.0251	0.0629
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Wave	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							

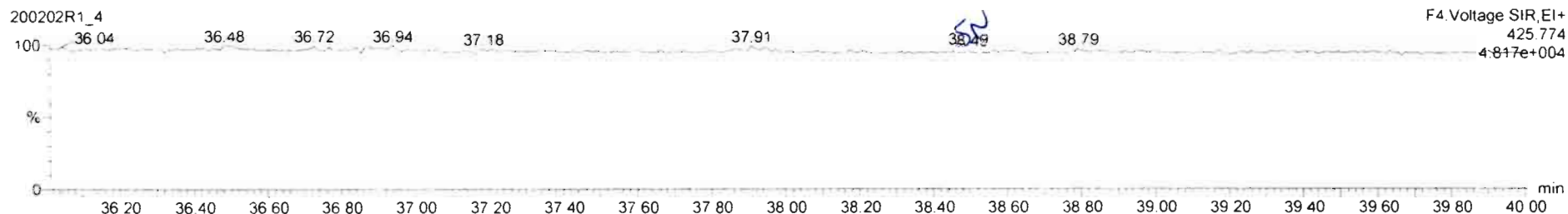
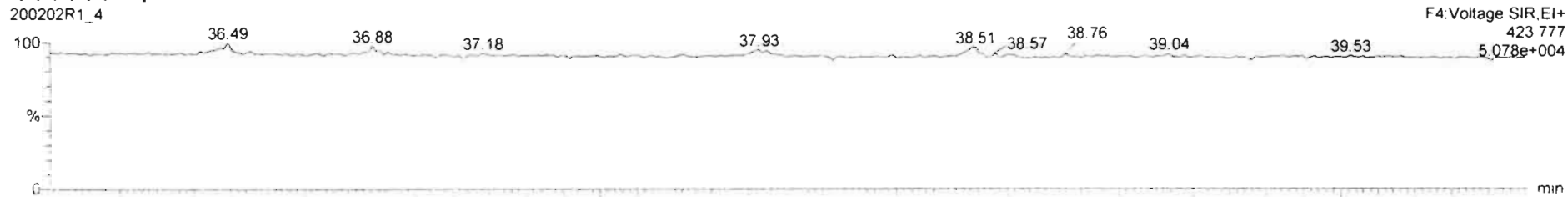


Dataset: Untitled

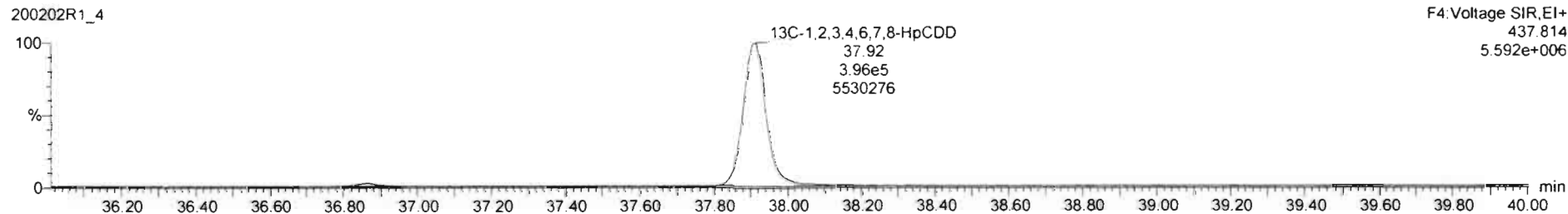
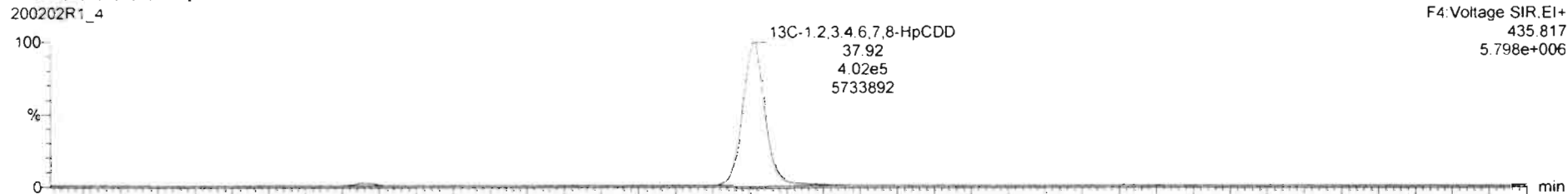
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

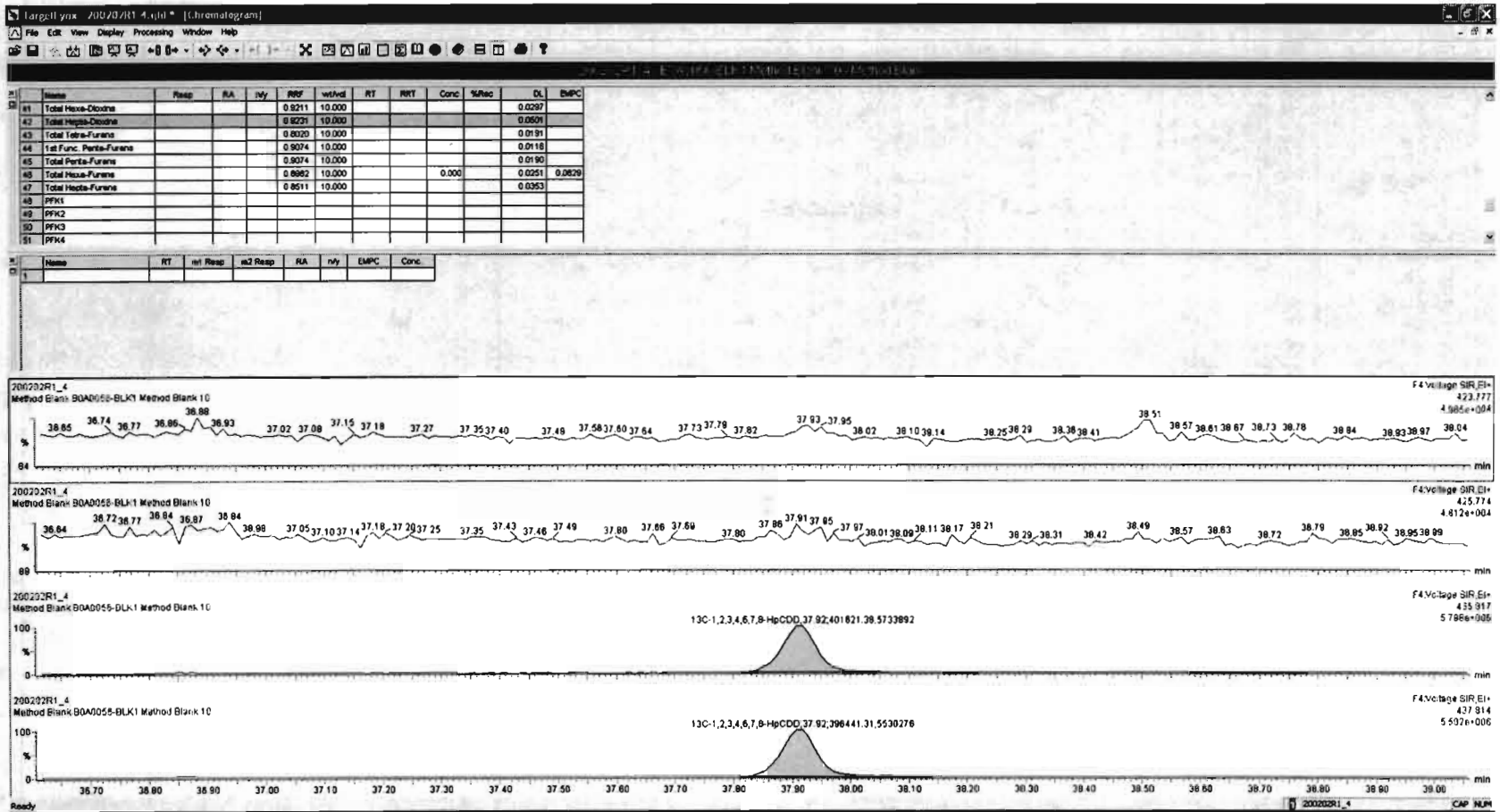
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1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD

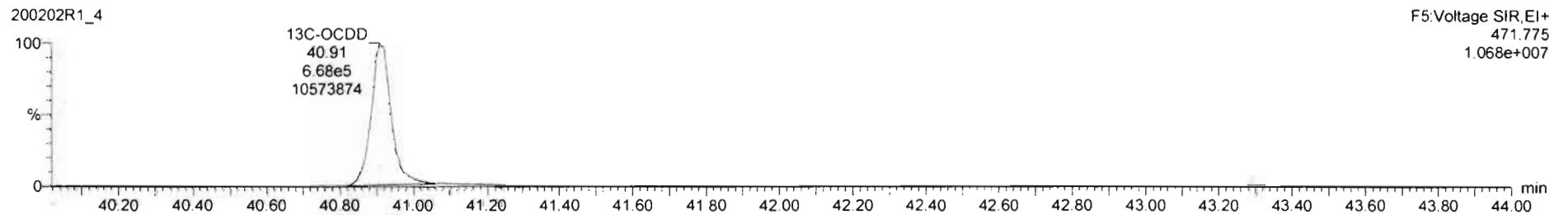
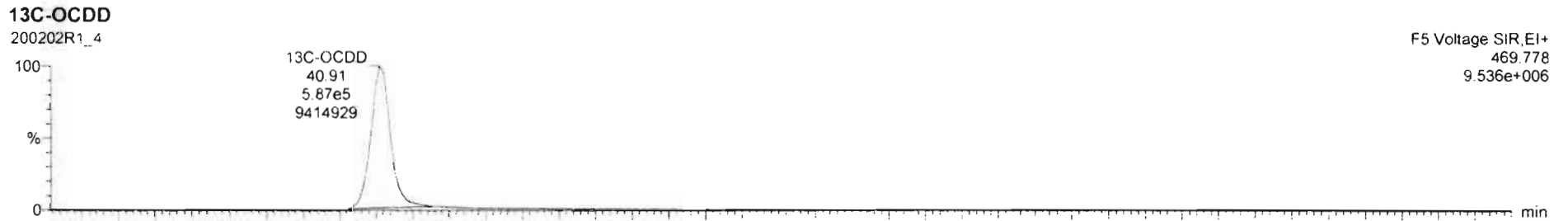
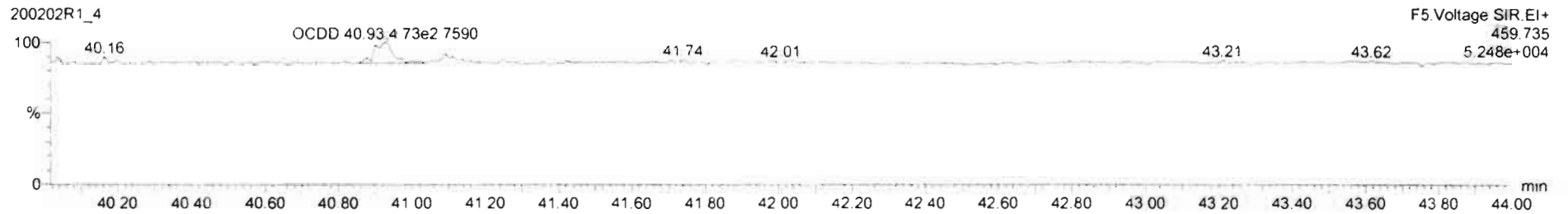
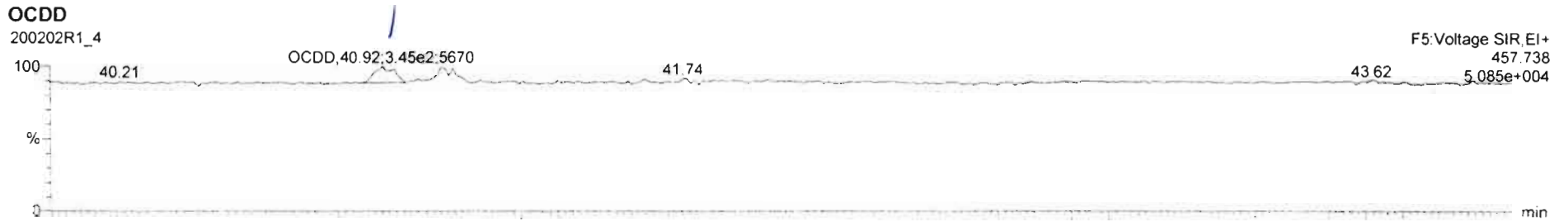




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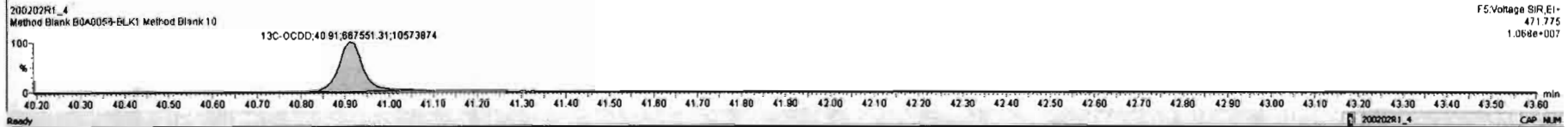
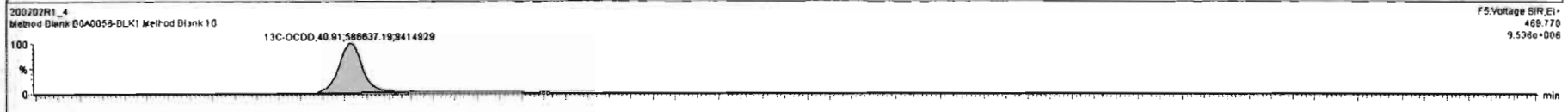
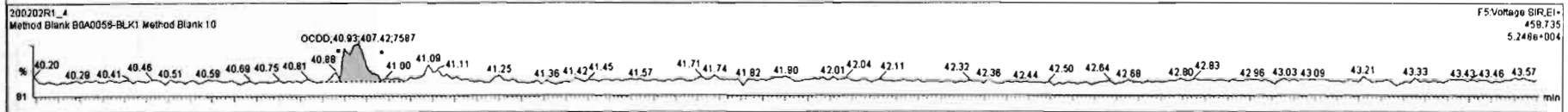
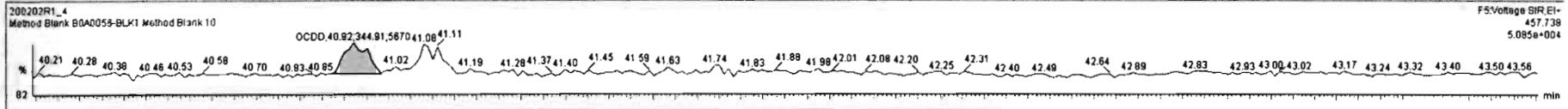
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank



#	Name	Resp	RA	n/y	R/R	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9891	10.000					0.0658	
2	1,2,3,7,8-PeCDD			NO	0.9723	10.000					0.0645	
3	1,2,3,4,7,8-HxCDD			NO	1.0706	10.000					0.0572	
4	1,2,3,6,7,8-HxCDD			NO	0.9211	10.000					0.0574	
5	1,2,3,7,8,9-HxCDD			NO	0.9182	10.000					0.0611	
6	1,2,3,4,6,7,8-HpCDD			NO	0.9231	10.000					0.0972	
7	OCDD	7.52e2	0.85	NO	0.9746	10.000	40.92	1.000	0.248		0.0872	0.248
8	2,3,7,8-TCDF			NO	0.8020	10.000					0.0472	
9	1,2,3,7,8-PeCDF			NO	0.9074	10.000					0.0438	
10	2,3,4,7,8-PeCDF			NO	0.9516	10.000					0.0389	
11	1,2,3,4,7,8-HxCDF			NO	0.8623	10.000					0.0407	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



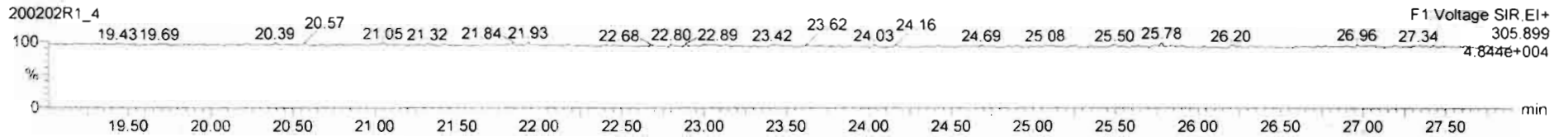
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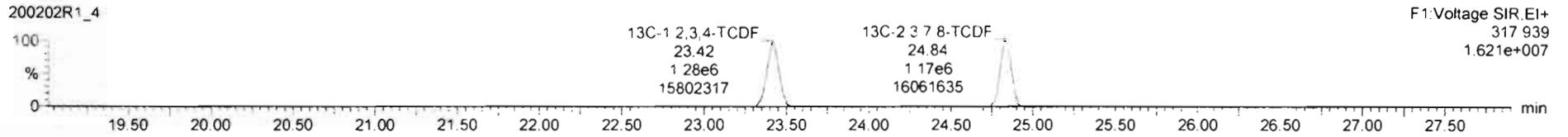
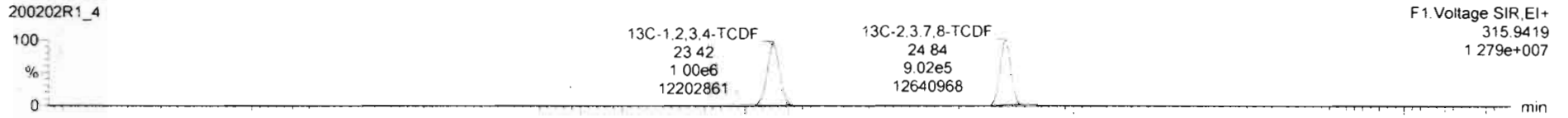
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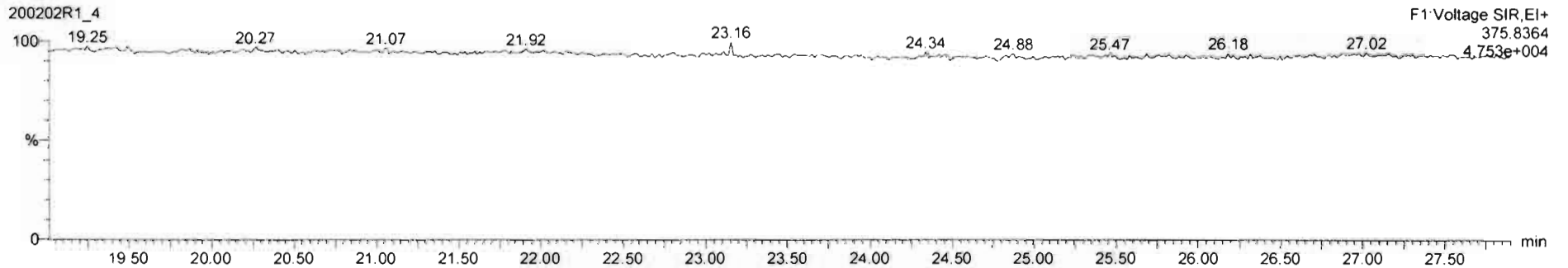
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

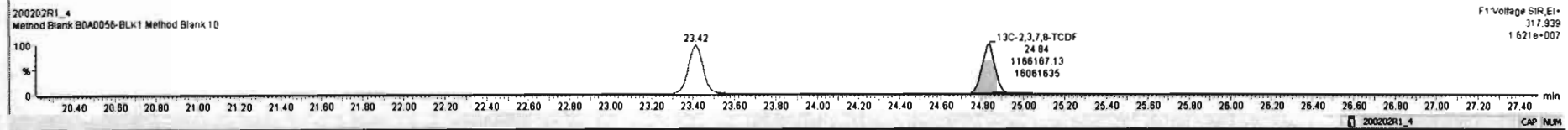
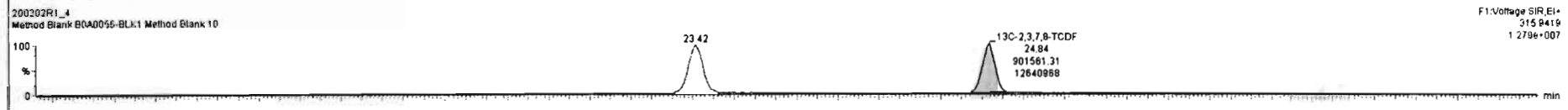
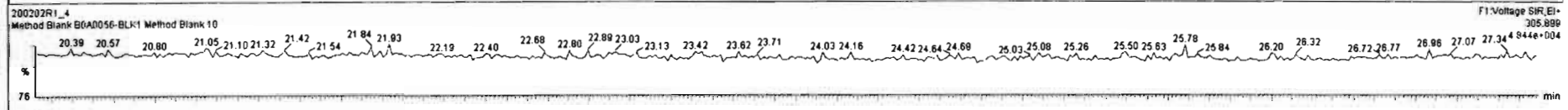
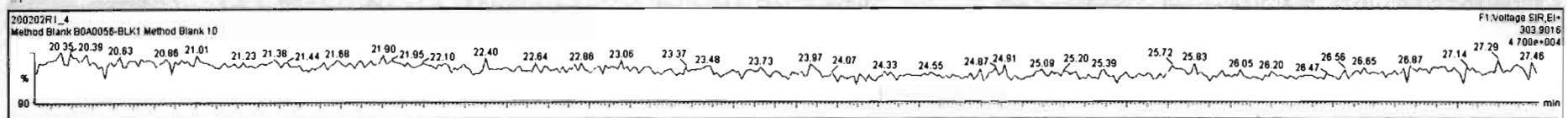


DPE1



Name	Resp	RA	n/y	R/R	w/nd	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.9020	10.000					0.0191	
44 1st F.u.c. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8962	10.000			0.000		0.0251	0.0829
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

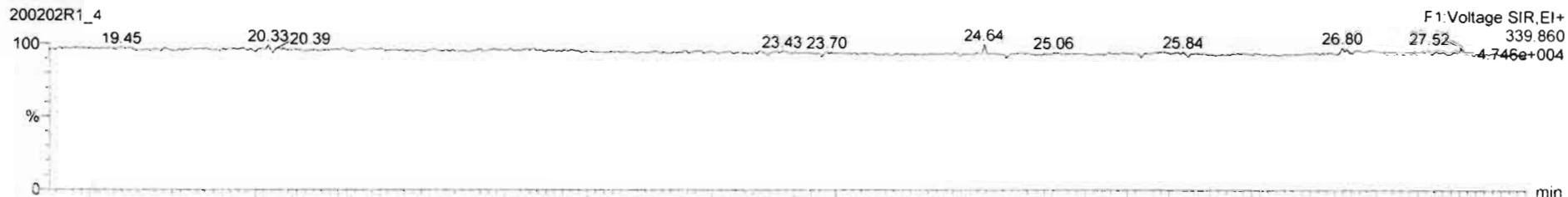
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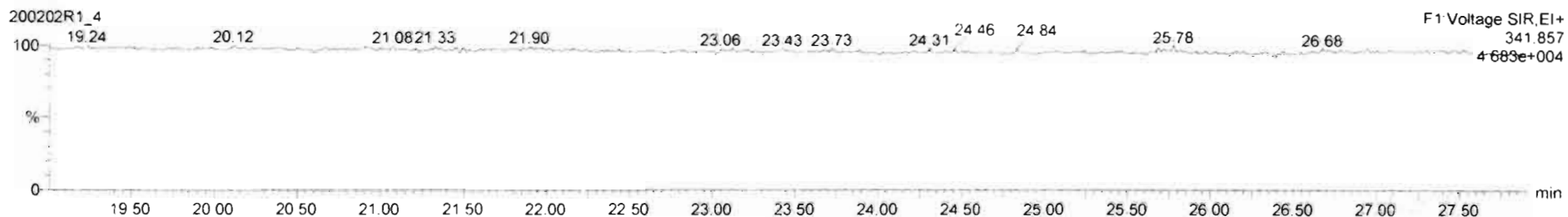
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1st Func. Penta-Furans

200202R1_4

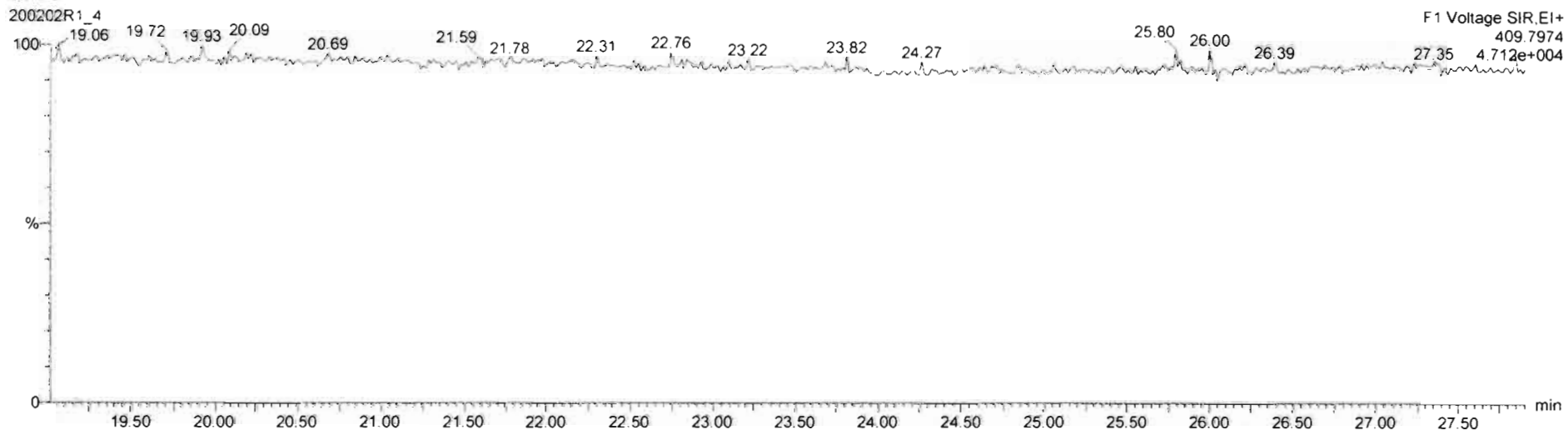


200202R1_4



DPE6

200202R1_4

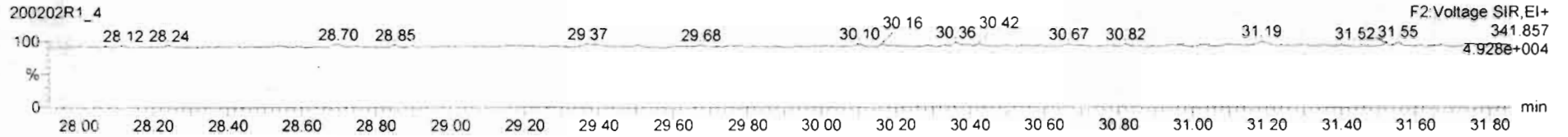
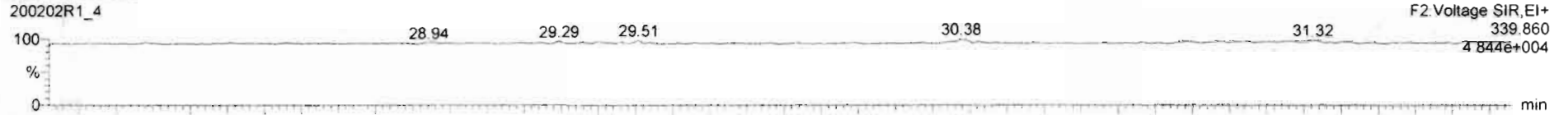


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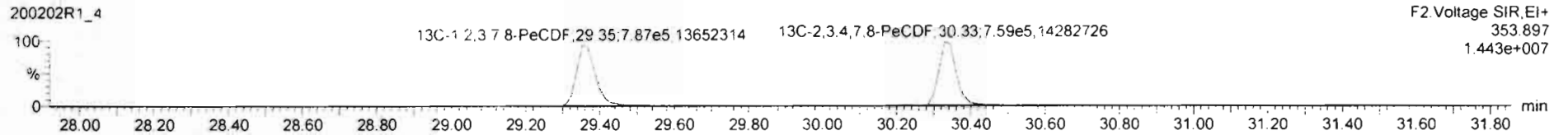
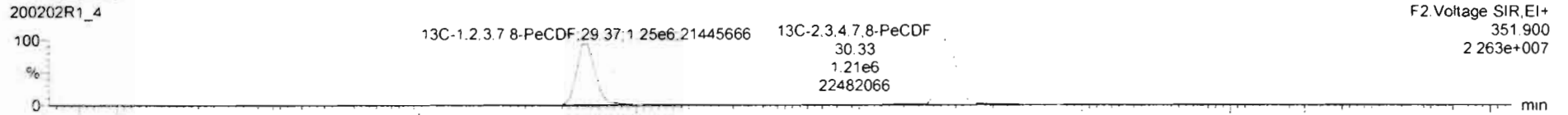
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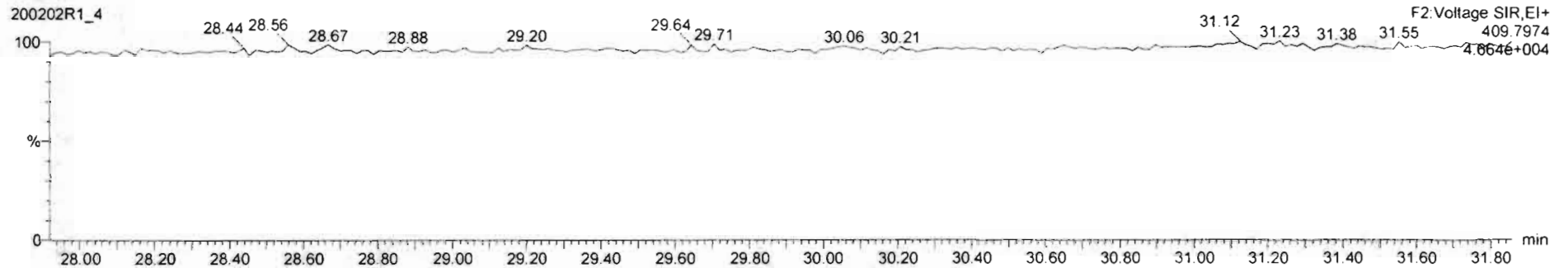
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

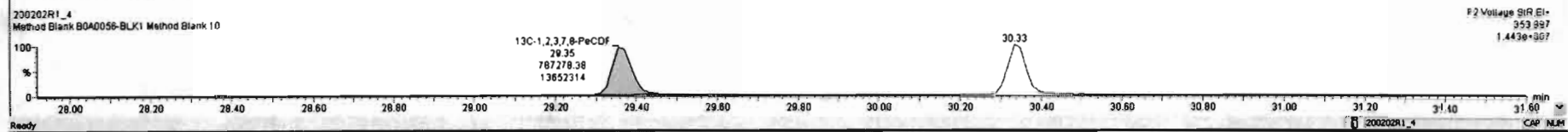
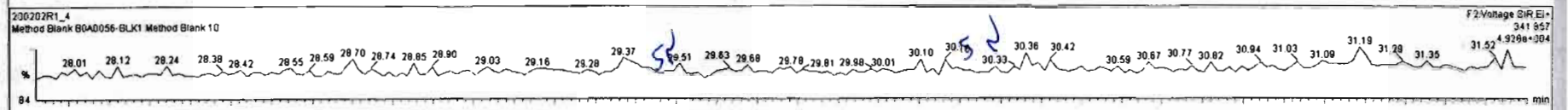
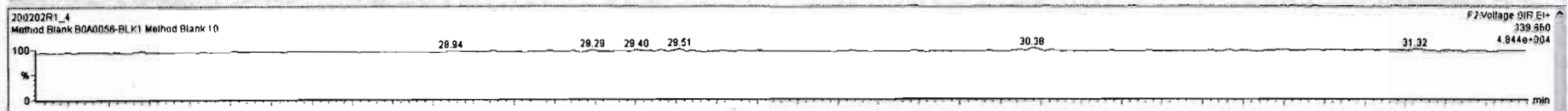


DPE2



Name	Resp	RA	rv/y	RPF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000				0.0297		
42 Total Hepta-Dioxins				0.9231	10.000				0.0601		
43 Total Tetra-Furans				0.9020	10.000				0.0191		
44 1st Func. Penta-Furans				0.9074	10.000				0.0116		
45 Total Penta-Furans				0.9074	10.000				0.0190		
46 Total Hexa-Furans				0.8962	10.000			0.000	0.0251	0.0829	
47 Total Hepta-Furans				0.9511	10.000				0.0353		
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	rv/y	EMPC	Conc.



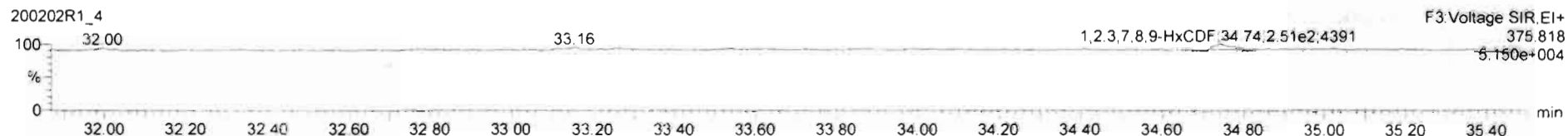
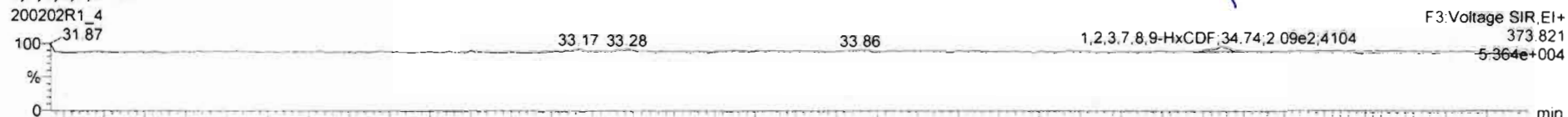
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Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

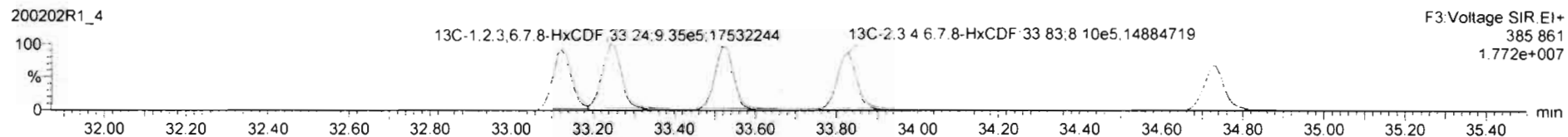
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Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

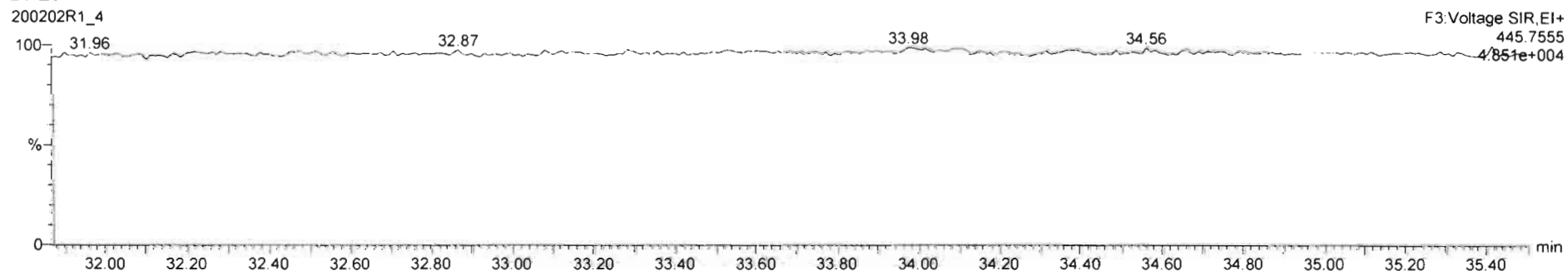
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

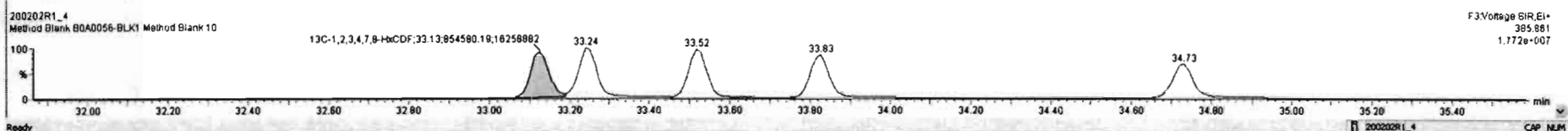
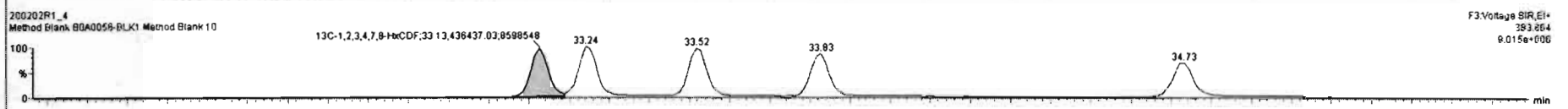
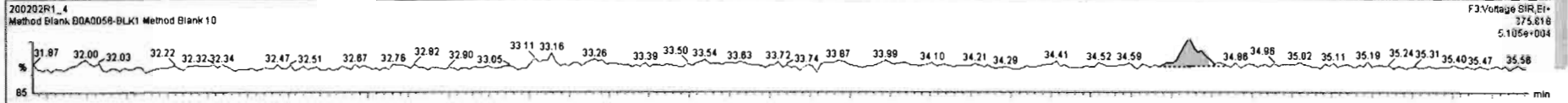
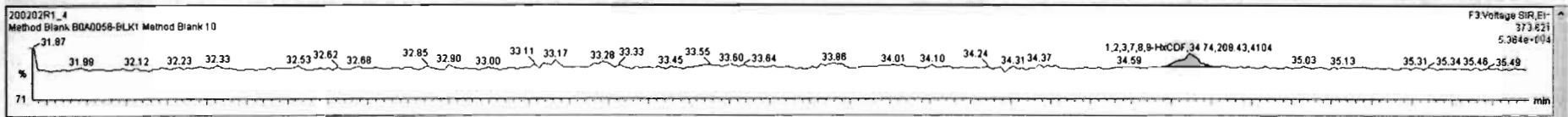


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8030	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0118	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8982	10.000			0.000		0.0261	0.0629
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8-HxCDF	34.74	2.084e2	2.343e2	0.89	YES	0.062817	0.00000

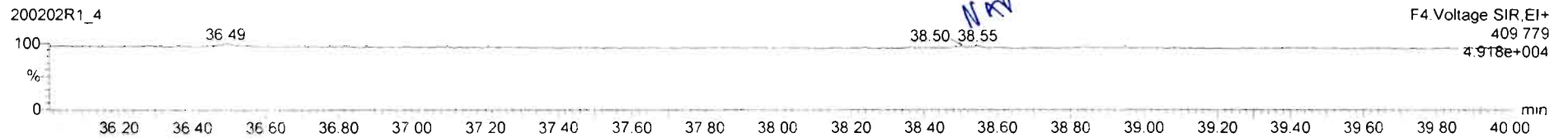
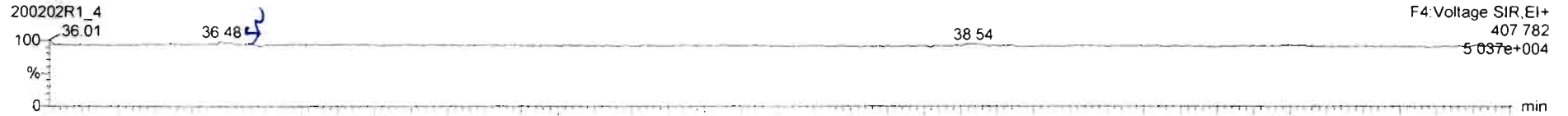


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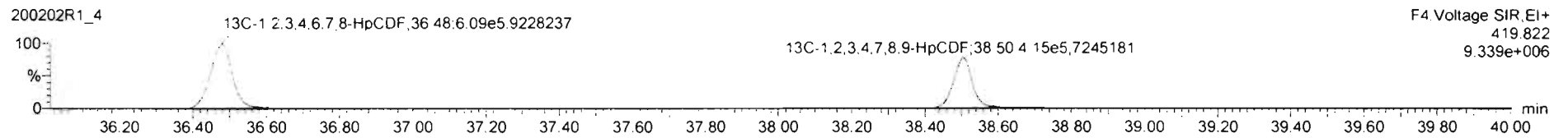
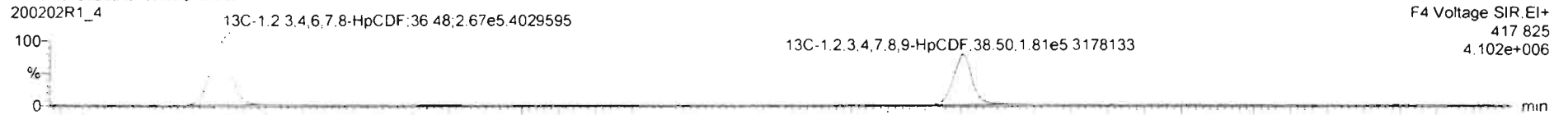
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

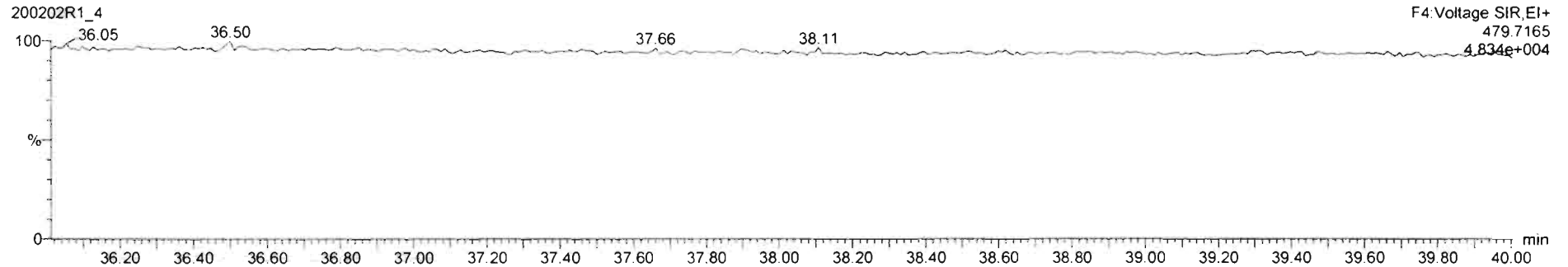
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4



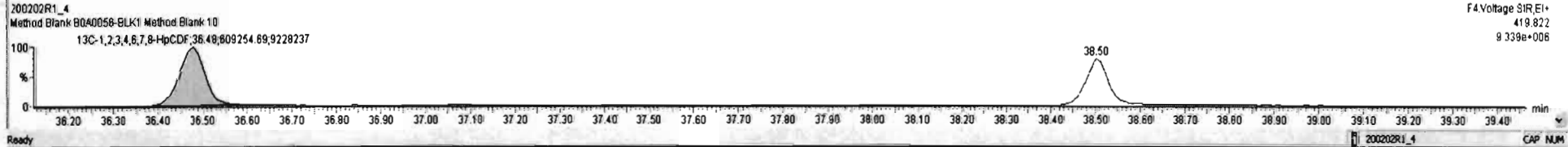
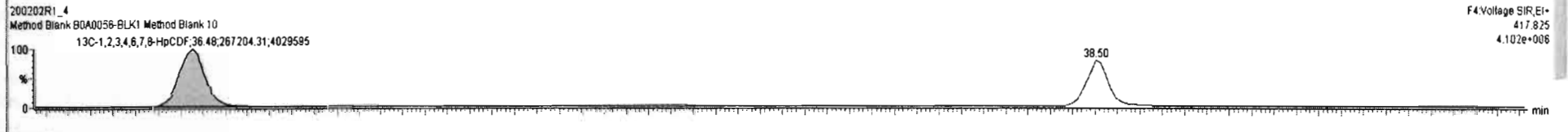
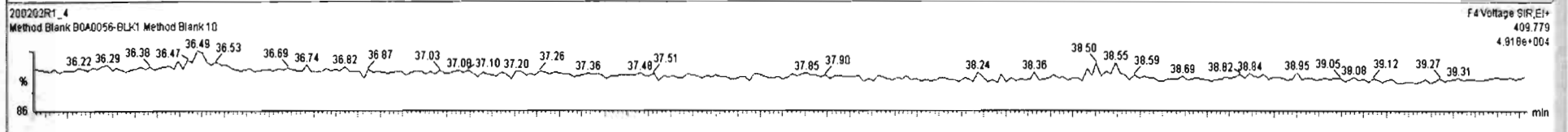
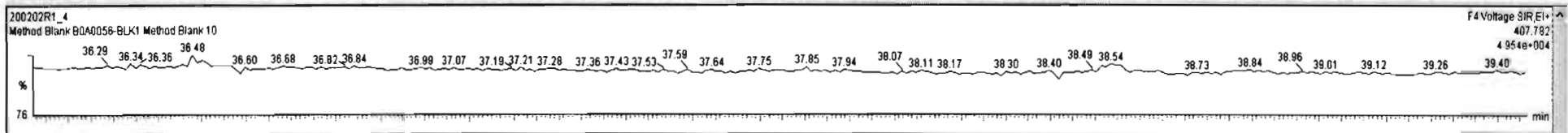
Targetlynx 700202R1_4.qid - [Chromatogram]

File Edit View Display Processing Window Help

200202R1_4 - BQ40056-ELK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8020	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8962	10.000			0.000		0.0251	0.9829
47 Total Hepta-Furans				0.8511	10.000					0.0363	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



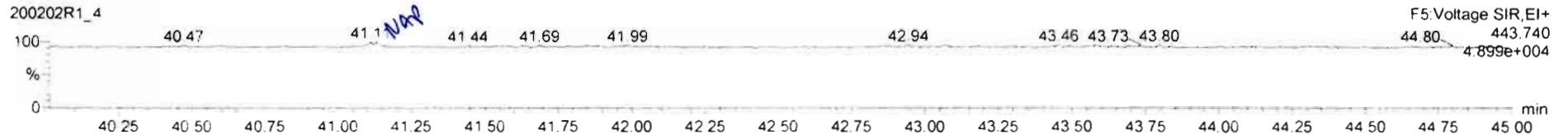
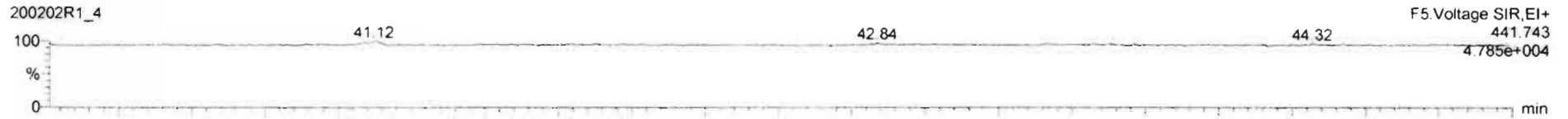
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Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

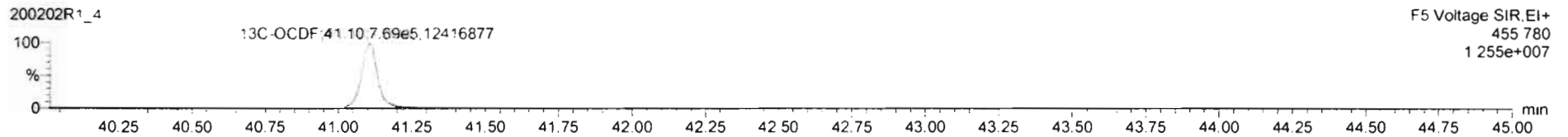
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Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

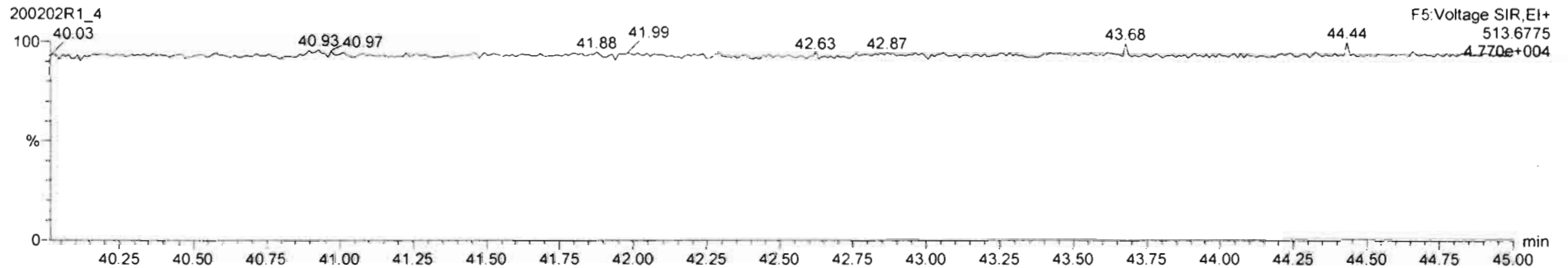
OCDF



13C-OCDF

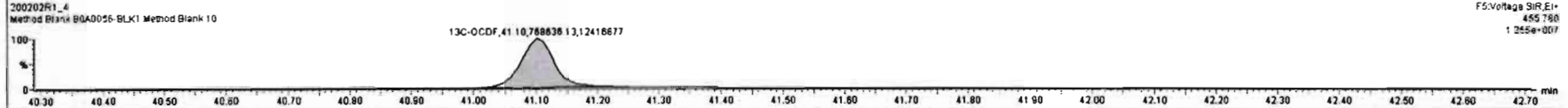
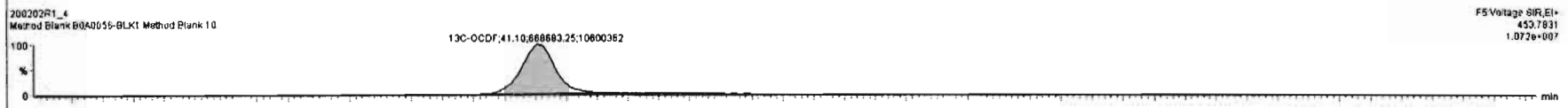
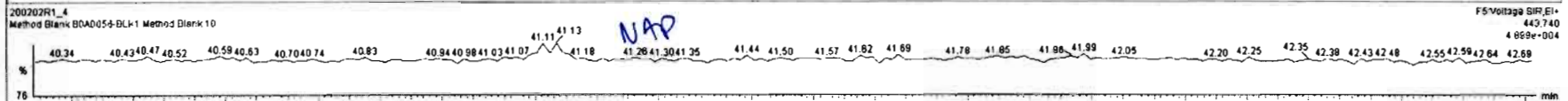
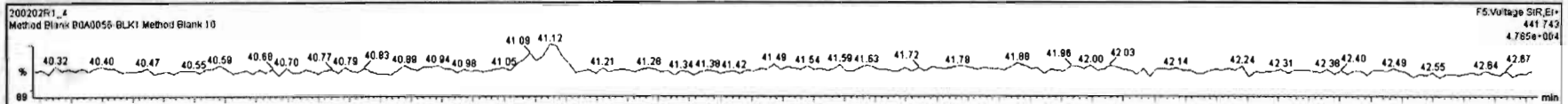


DPE5



#	Name	Resp	RA	rvy	RFF	wtVol	RT	RPT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF			NO	0.9074	10.000					0.0438	
10	2,3,4,7,8-PeCDF			NO	0.9516	10.000					0.0399	
11	1,2,3,4,7,8-HxCDF			NO	0.8623	10.000					0.0407	
12	1,2,3,6,7,8-HxCDF			NO	0.8414	10.000					0.0408	
13	2,3,4,6,7,8-HxCDF			NO	0.8082	10.000					0.0442	
14	1,2,3,7,8,9-HxCDF	4.60e2	0.84	YES	0.8578	10.000	34.74	1.000	0.101		0.0593	0.0829
15	1,2,3,4,6,7,8-HpCDF			NO	0.8511	10.000					0.0687	
16	1,2,3,4,7,8,9-HpCDF			NO	0.8799	10.000					0.0732	
17	OCDF			NO	0.9055	10.000					0.0935	
18	13C-2,3,7,8-TCDD	1.52e6	0.80	NO	1.1985	10.000	25.70	1.026	188	94.0	0.183	
19	13C-1,2,3,7,8-PeCDD	1.23e6	0.83	NO	0.9887	10.000	30.84	1.222	188	94.1	0.186	

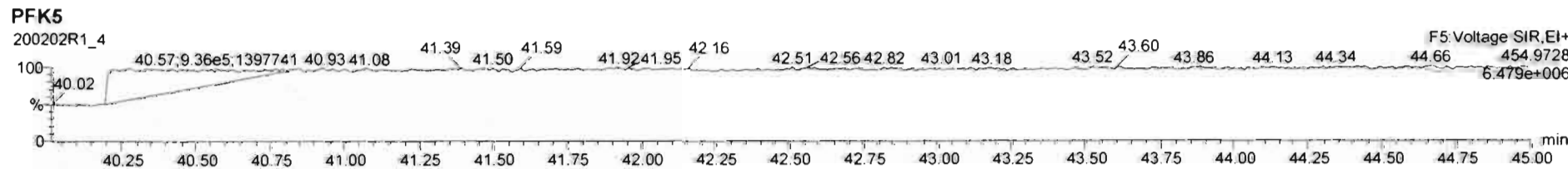
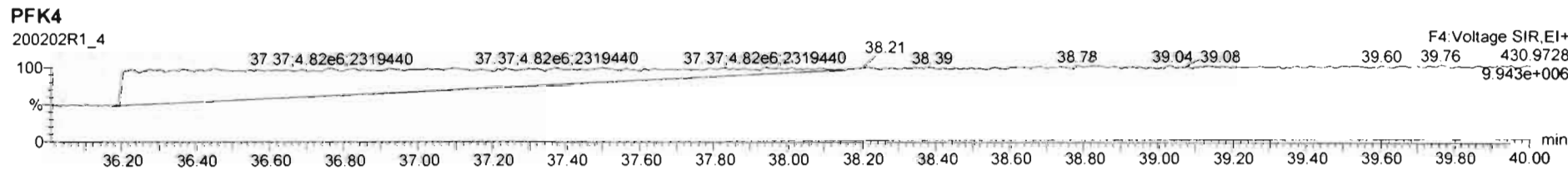
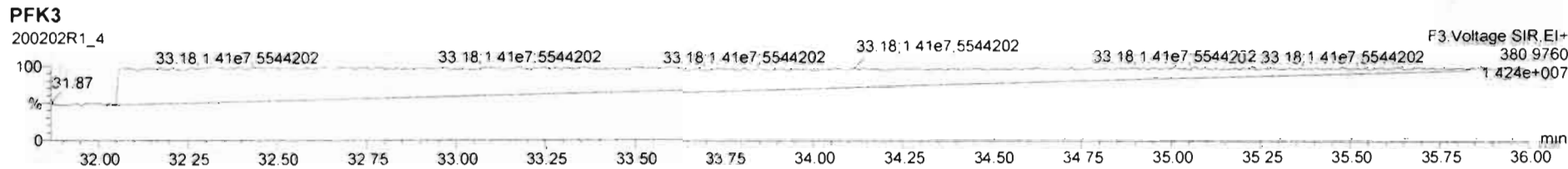
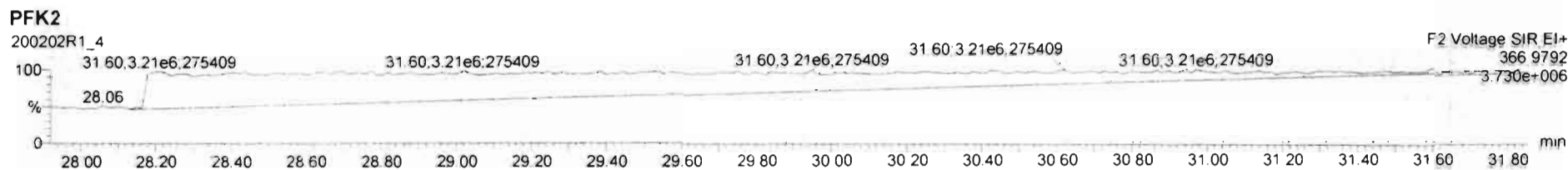
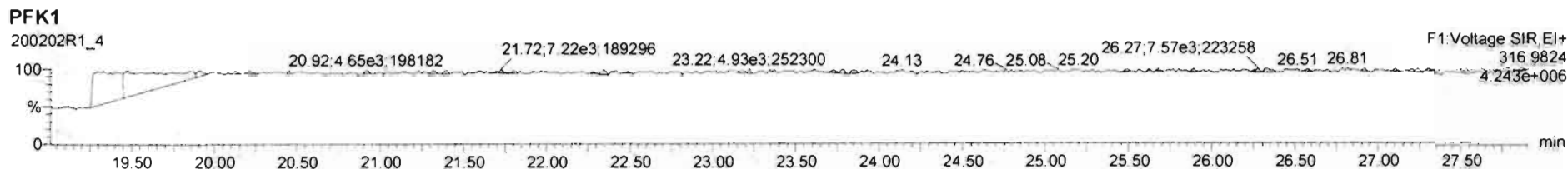
#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1								



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-2.qld

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Friday, February 07, 2020 11:07:06 Pacific Standard Time

Hc 2-7-2020

C1 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.19e5	0.78	NO	0.988	10.000	25.736	25.72	1.001	1.001	20.075		0.0908	20.1
2	2 1,2,3,7,8-PeCDD	4.47e5	0.63	NO	0.972	10.000	30.658	30.65	1.001	1.000	98.047		0.139	98.0
3	3 1,2,3,4,7,8-HxCDD	4.12e5	1.22	NO	1.07	10.000	33.998	34.01	1.000	1.001	103.56		0.169	104
4	4 1,2,3,6,7,8-HxCDD	4.29e5	1.24	NO	0.921	10.000	34.094	34.10	1.000	1.000	106.04		0.178	106
5	5 1,2,3,7,8,9-HxCDD	3.93e5	1.23	NO	0.918	10.000	34.405	34.38	1.001	1.000	106.14		0.196	106
6	6 1,2,3,4,6,7,8-HpCDD	2.79e5	1.02	NO	0.923	10.000	37.918	37.92	1.000	1.000	102.93		0.433	103
7	7 OCDD	4.60e5	0.89	NO	0.975	10.000	40.910	40.92	1.000	1.000	195.34		0.348	195
8	8 2,3,7,8-TCDF	1.37e5	0.74	NO	0.802	10.000	24.832	24.84	1.001	1.001	21.496		0.0666	21.5
9	9 1,2,3,7,8-PeCDF	7.30e5	1.54	NO	0.907	10.000	29.391	29.39	1.001	1.000	104.05		0.164	104
10	10 2,3,4,7,8-PeCDF	7.47e5	1.51	NO	0.952	10.000	30.377	30.36	1.001	1.000	103.09		0.149	103
11	11 1,2,3,4,7,8-HxCDF	4.43e5	1.17	NO	0.862	10.000	33.125	33.13	1.000	1.000	107.69		0.236	108
12	12 1,2,3,6,7,8-HxCDF	4.97e5	1.17	NO	0.841	10.000	33.252	33.26	1.000	1.001	109.83		0.236	110
13	13 2,3,4,6,7,8-HxCDF	4.67e5	1.20	NO	0.898	10.000	33.851	33.84	1.001	1.001	108.90		0.242	109
14	14 1,2,3,7,8,9-HxCDF	3.83e5	1.15	NO	0.858	10.000	34.722	34.74	1.000	1.001	108.71		0.335	109
15	15 1,2,3,4,6,7,8-HpCDF	3.04e5	0.96	NO	0.851	10.000	36.505	36.49	1.001	1.001	108.76		0.459	109
16	16 1,2,3,4,7,8,9-HpCDF	2.50e5	0.95	NO	0.980	10.000	38.493	38.51	1.000	1.001	111.28		0.540	111
17	17 OCDF	4.76e5	0.85	NO	0.806	10.000	41.102	41.11	1.000	1.000	220.54		0.298	221
18	18 13C-2,3,7,8-TCDD	1.20e6	0.83	NO	1.20	10.000	25.706	25.70	1.026	1.026	160.99	80.5	0.174	
19	19 13C-1,2,3,7,8-PeCDD	9.37e5	0.63	NO	0.967	10.000	30.450	30.64	1.215	1.222	156.10	78.0	0.200	
20	20 13C-1,2,3,4,7,8-HxCDD	7.44e5	1.24	NO	0.874	10.000	33.988	33.99	1.014	1.014	149.69	74.8	0.282	
21	21 13C-1,2,3,6,7,8-HxCDD	8.79e5	1.26	NO	1.05	10.000	34.088	34.09	1.017	1.017	147.77	73.9	0.235	
22	22 13C-1,2,3,7,8,9-HxCDD	8.07e5	1.24	NO	0.974	10.000	34.390	34.37	1.026	1.025	145.61	72.8	0.252	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.88e5	1.06	NO	0.747	10.000	37.943	37.91	1.132	1.131	138.43	69.2	0.485	
24	24 13C-OCDD	9.66e5	0.89	NO	0.707	10.000	40.826	40.91	1.218	1.220	240.57	60.1	0.373	
25	25 13C-2,3,7,8-TCDF	1.59e6	0.77	NO	1.07	10.000	24.886	24.81	0.993	0.990	155.03	77.5	0.273	
26	26 13C-1,2,3,7,8-PeCDF	1.55e6	1.58	NO	1.00	10.000	29.222	29.37	1.166	1.172	160.74	80.4	0.407	
27	27 13C-2,3,4,7,8-PeCDF	1.52e6	1.57	NO	0.962	10.000	30.174	30.35	1.204	1.211	164.92	82.5	0.424	
28	28 13C-1,2,3,4,7,8-HxCDF	9.54e5	0.51	NO	1.05	10.000	33.116	33.13	0.988	0.988	159.91	80.0	0.388	
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	0.51	NO	1.19	10.000	33.217	33.24	0.991	0.992	159.15	79.6	0.342	
30	30 13C-2,3,4,6,7,8-HxCDF	9.54e5	0.51	NO	1.07	10.000	33.824	33.82	1.009	1.009	157.38	78.7	0.381	
31	31 13C-1,2,3,7,8,9-HxCDF	8.21e5	0.51	NO	0.922	10.000	34.725	34.72	1.036	1.036	156.60	78.3	0.441	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.56e5	0.44	NO	0.767	10.000	36.468	36.47	1.088	1.088	150.41	75.2	0.387	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-2.qld

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Friday, February 07, 2020 11:07:06 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.59e5	0.43	NO	0.552	10.000	38.479	38.49	1.148	1.148	146.27	73.1	0.538	
34	34 13C-OCDF	1.07e6	0.87	NO	0.789	10.000	41.060	41.10	1.225	1.226	238.70	59.7	0.322	
35	35 37Cl-2,3,7,8-TCDD	5.26e5			1.18	10.000	25.738	25.72	1.027	1.026	71.961	90.0	0.0427	
36	36 13C-1,2,3,4-TCDD	1.24e6	0.80	NO	1.00	10.000	25.080	25.06	1.000	1.000	200.00	100	0.209	
37	37 13C-1,2,3,4-TCDF	1.92e6	0.79	NO	1.00	10.000	23.420	23.39	1.000	1.000	200.00	100	0.291	
38	38 13C-1,2,3,4,6,9-HxCDF	1.14e6	0.51	NO	1.00	10.000	33.520	33.52	1.000	1.000	200.00	100	0.407	

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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

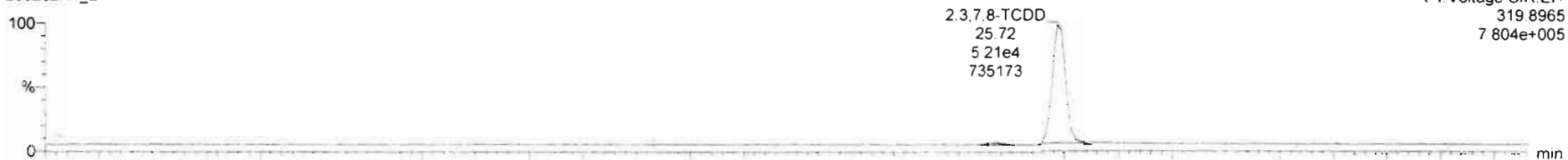
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

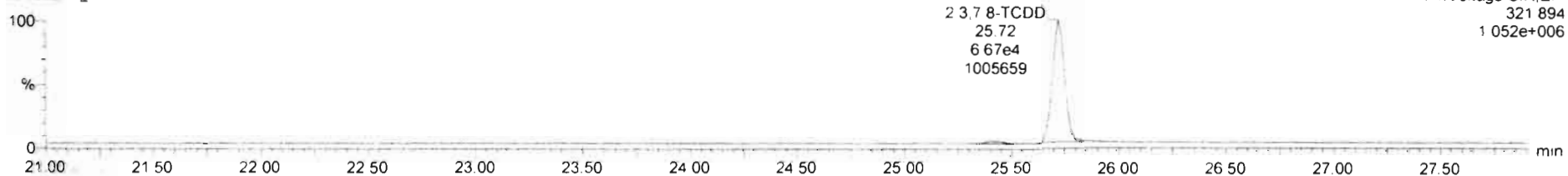
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2,3,7,8-TCDD

200202R1_2

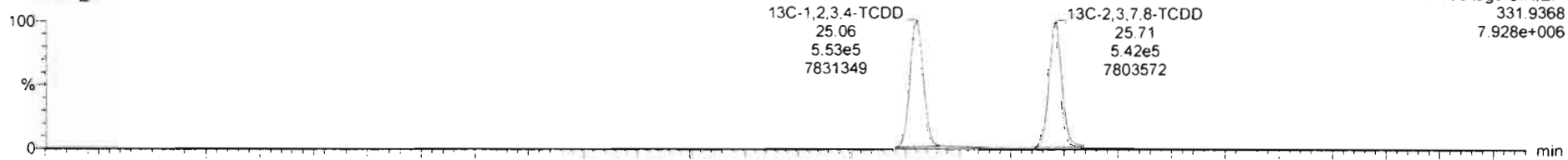


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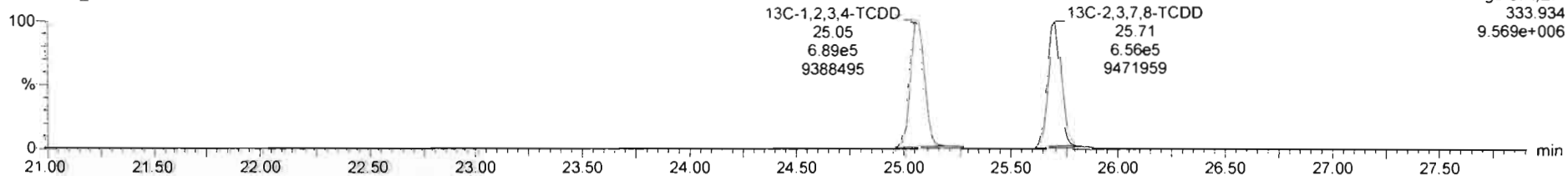


13C-2,3,7,8-TCDD

200202R1_2



200202R1_2



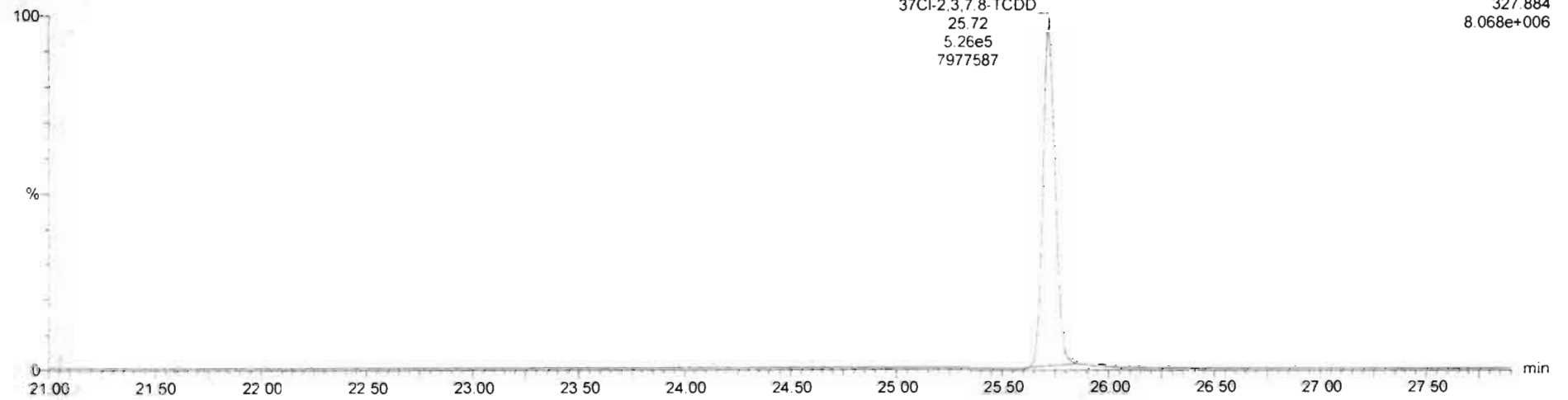
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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

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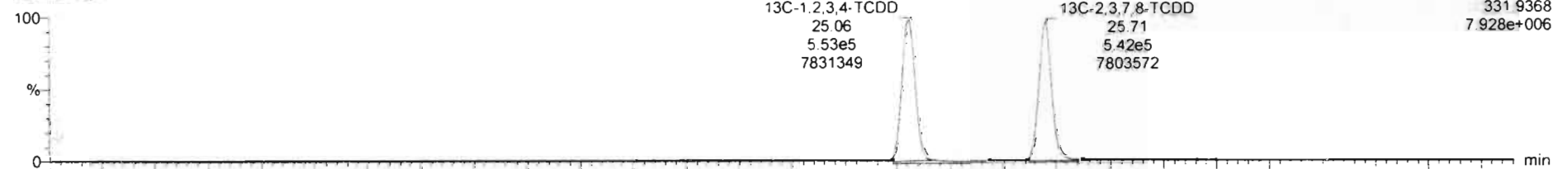
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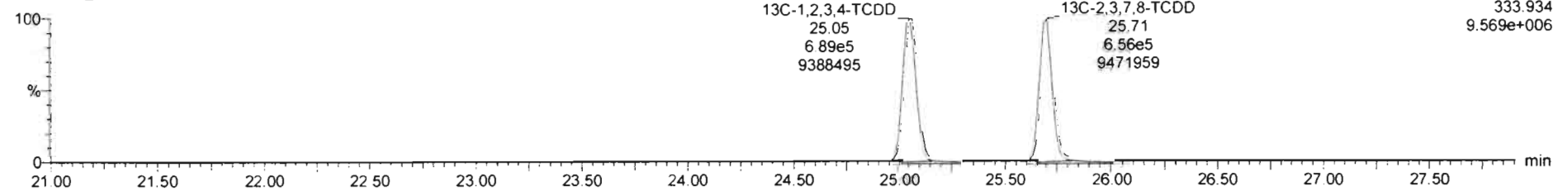


13C-1,2,3,4-TCDD

200202R1_2



200202R1_2



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Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

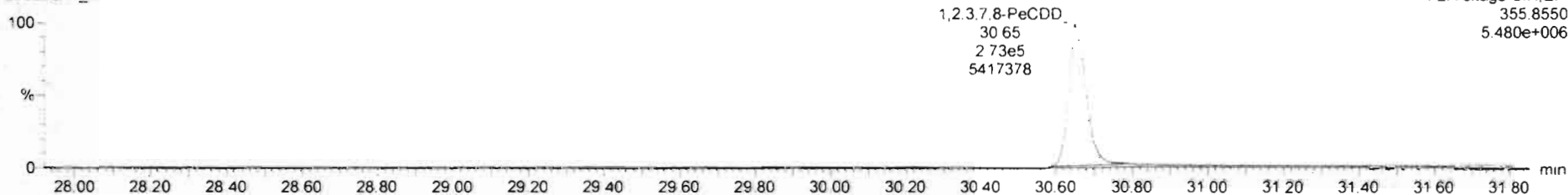
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1,2,3,7,8-PeCDD

200202R1_2

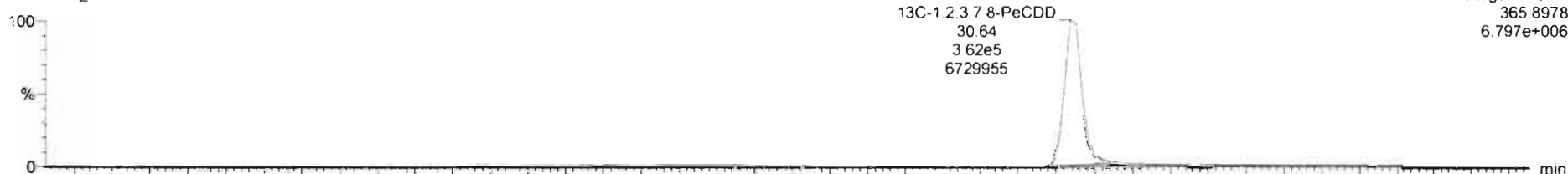


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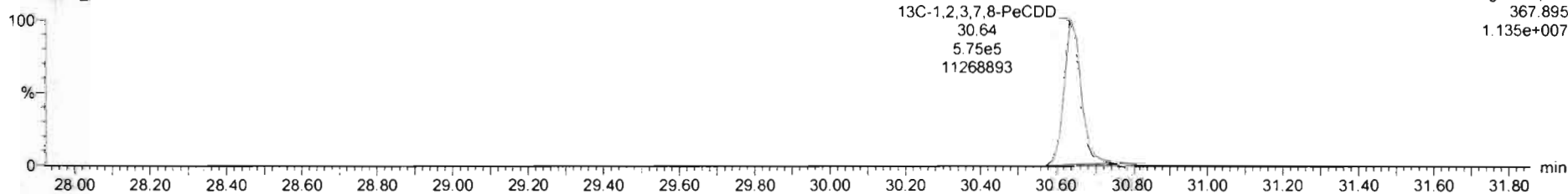


13C-1,2,3,7,8-PeCDD

200202R1_2



200202R1_2



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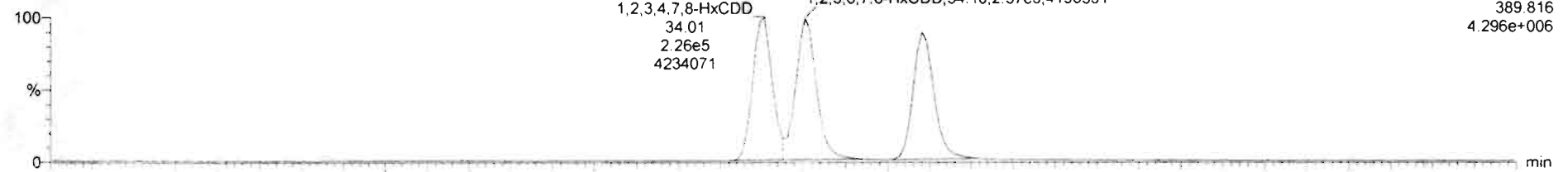
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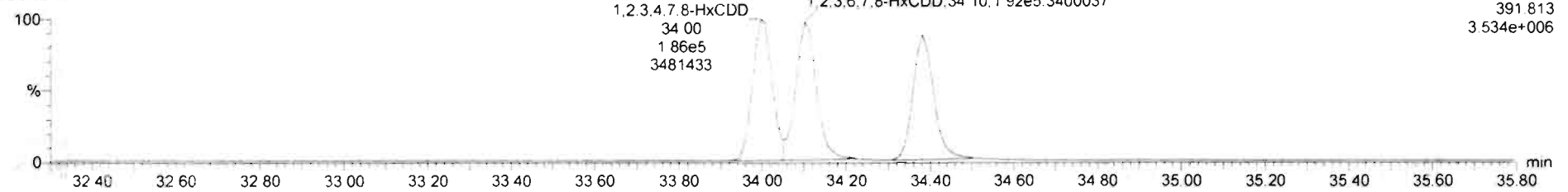
Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

1,2,3,4,7,8-HxCDD

200202R1_2

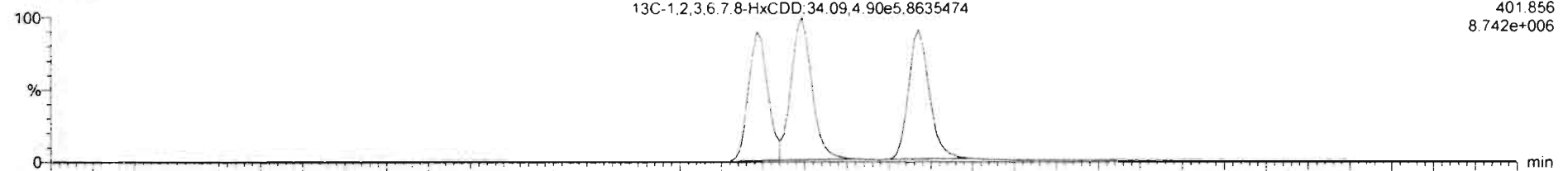


200202R1_2

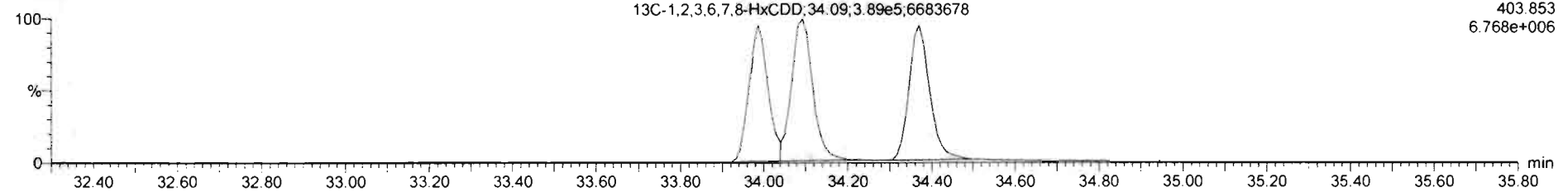


13C-1,2,3,4,7,8-HxCDD

200202R1_2



200202R1_2



Dataset: Untitled

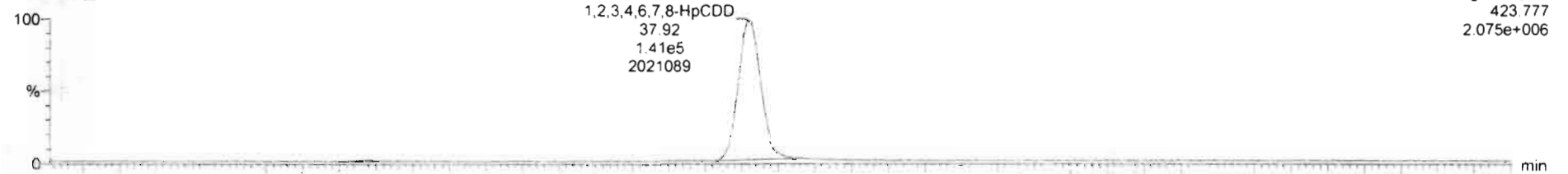
Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

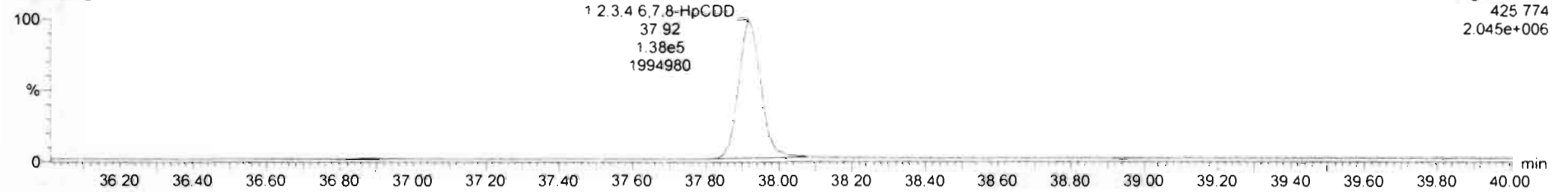
Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

1,2,3,4,6,7,8-HpCDD

200202R1_2

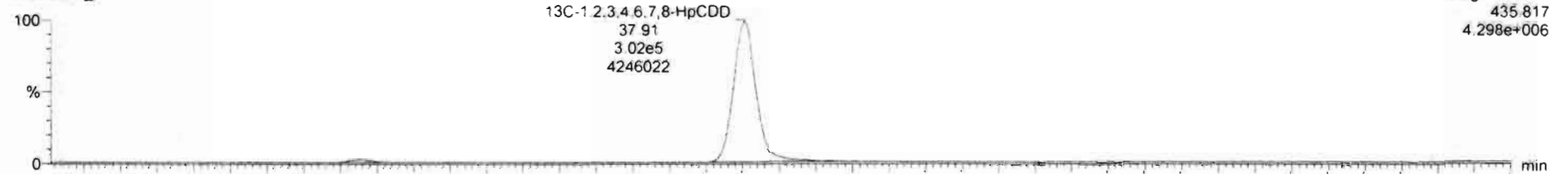


200202R1_2

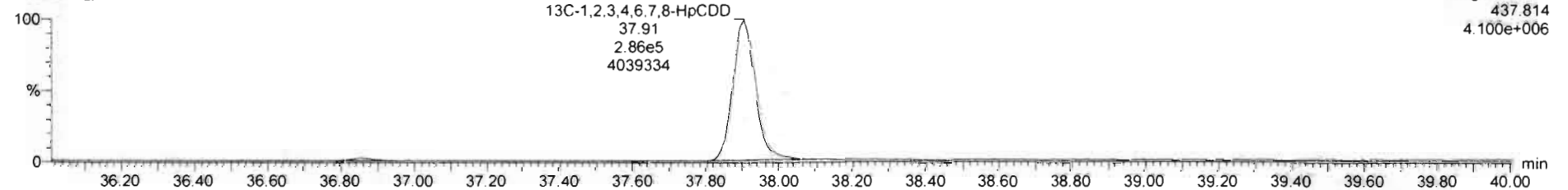


13C-1,2,3,4,6,7,8-HpCDD

200202R1_2



200202R1_2



Dataset: Untitled

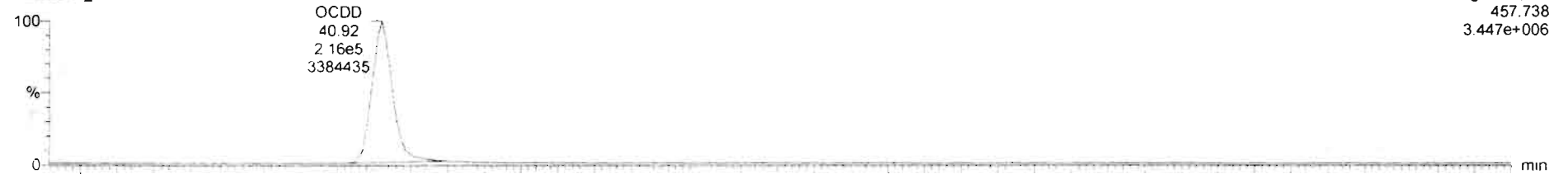
Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

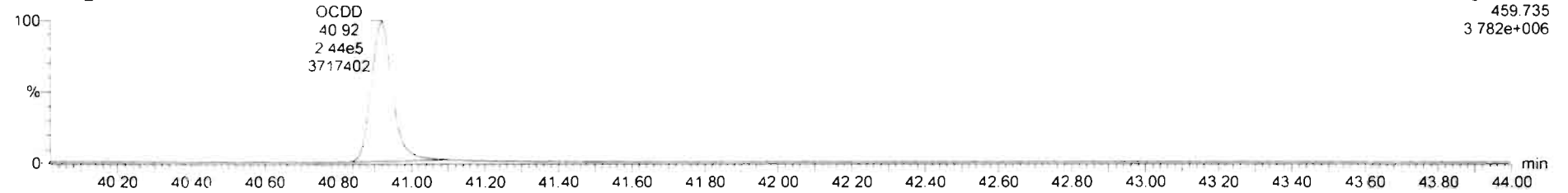
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OCDD

200202R1_2

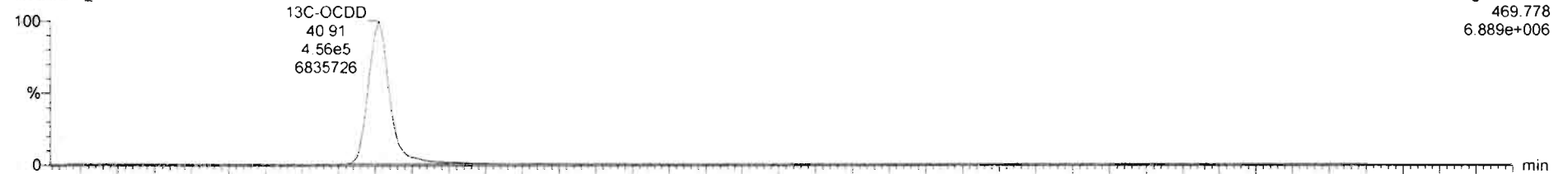


200202R1_2

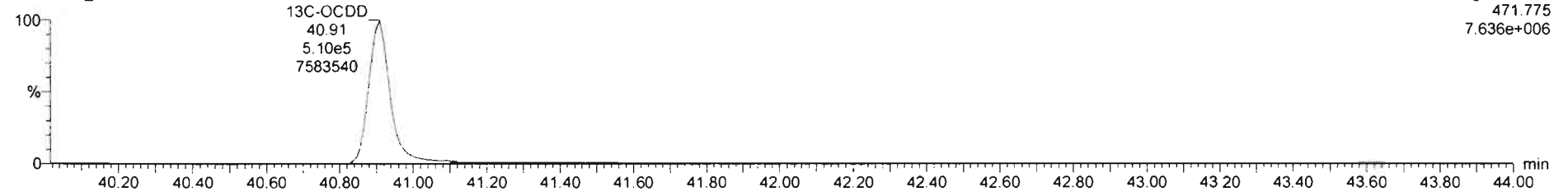


13C-OCDD

200202R1_2



200202R1_2



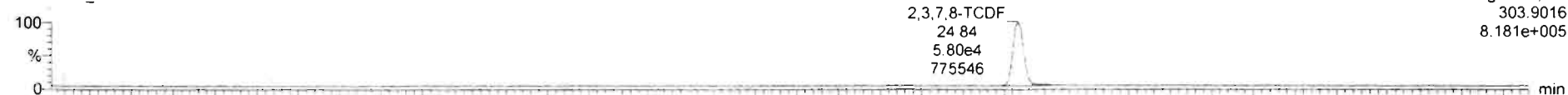
Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

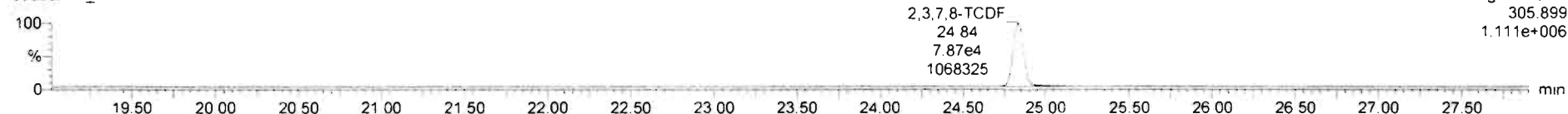
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2,3,7,8-TCDF

200202R1_2

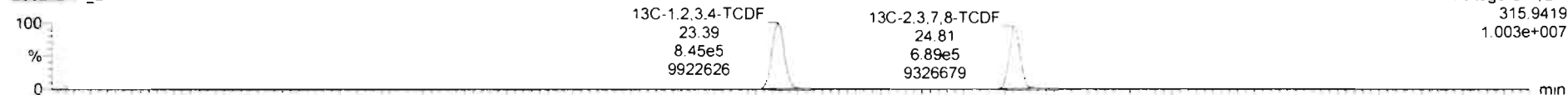


200202R1_2

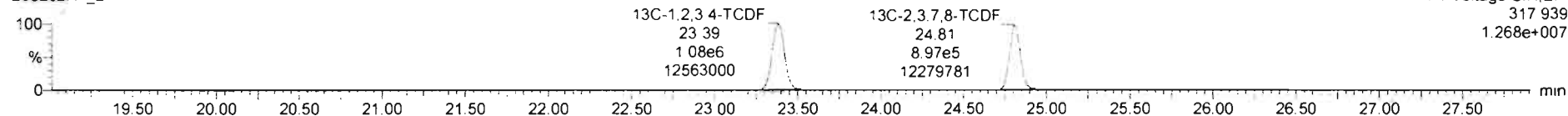


13C-2,3,7,8-TCDF

200202R1_2

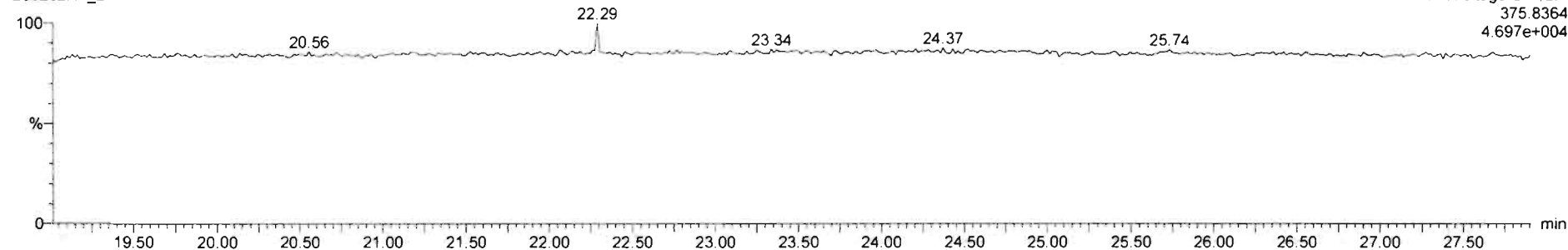


200202R1_2



DPE1

200202R1_2



Dataset: Untitled

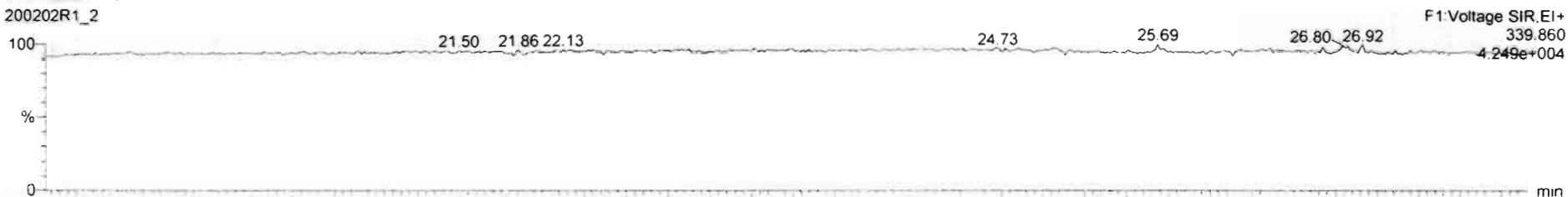
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Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

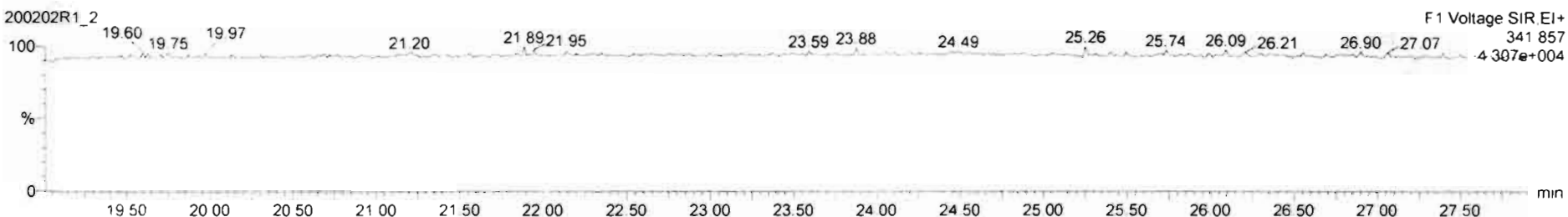
Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200202R1_2

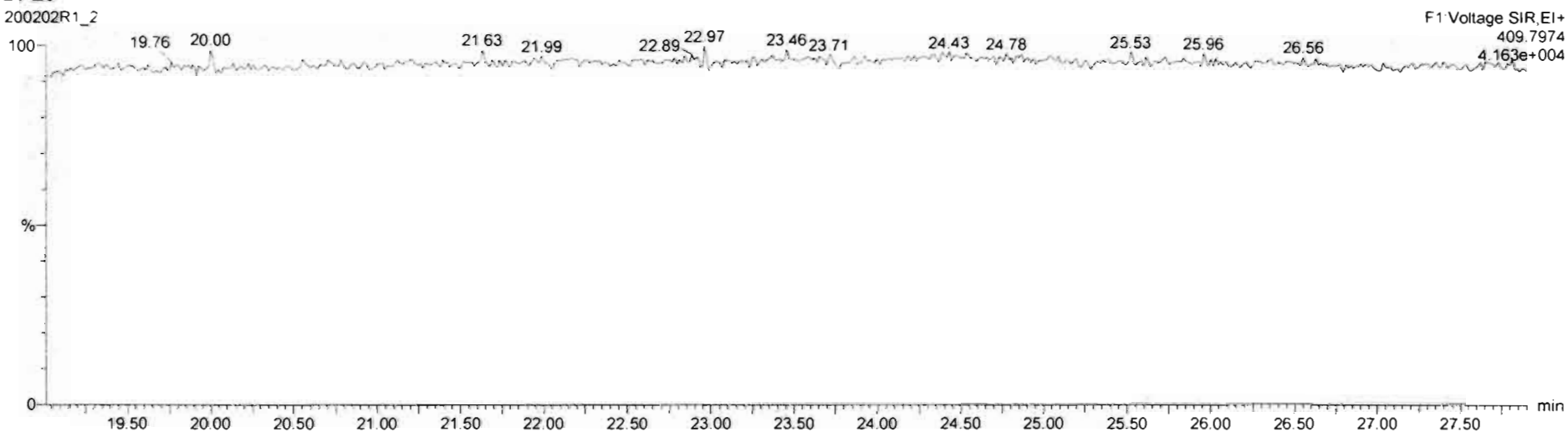


200202R1_2



DPE6

200202R1_2



Dataset: Untitled

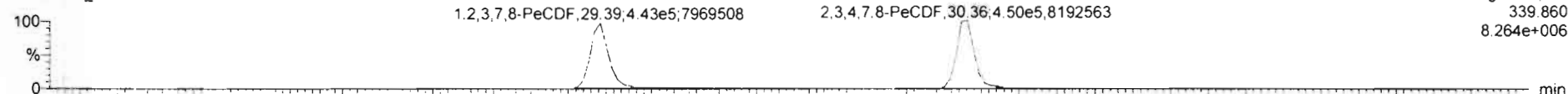
Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

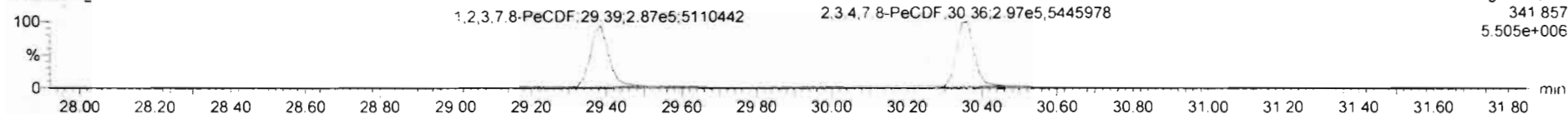
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1,2,3,7,8-PeCDF

200202R1_2

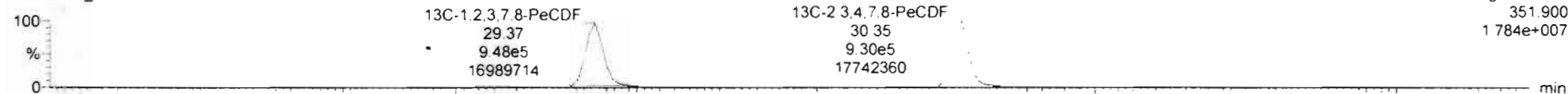


200202R1_2

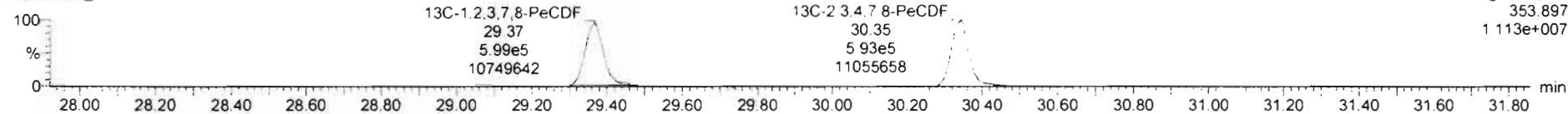


13C-1,2,3,7,8-PeCDF

200202R1_2

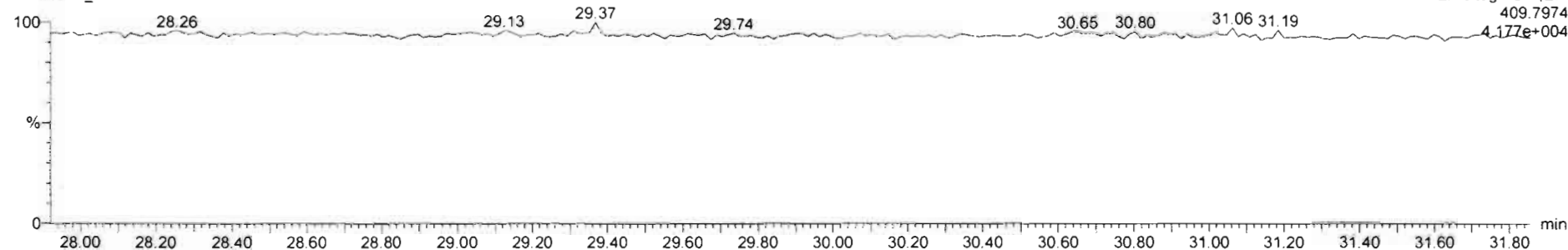


200202R1_2



DPE2

200202R1_2



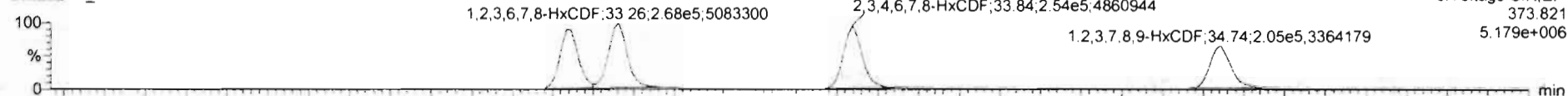
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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

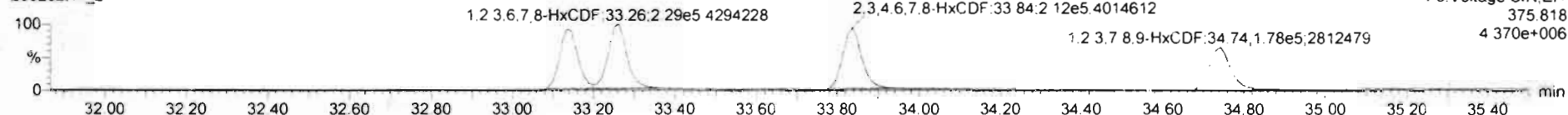
Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

1,2,3,4,7,8-HxCDF

200202R1_2

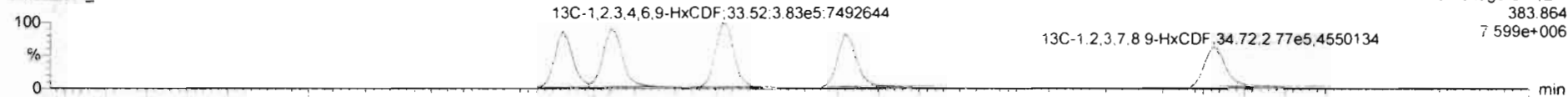


200202R1_2

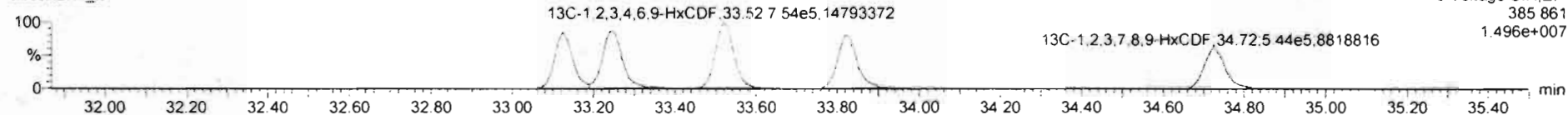


13C-1,2,3,4,7,8-HxCDF

200202R1_2

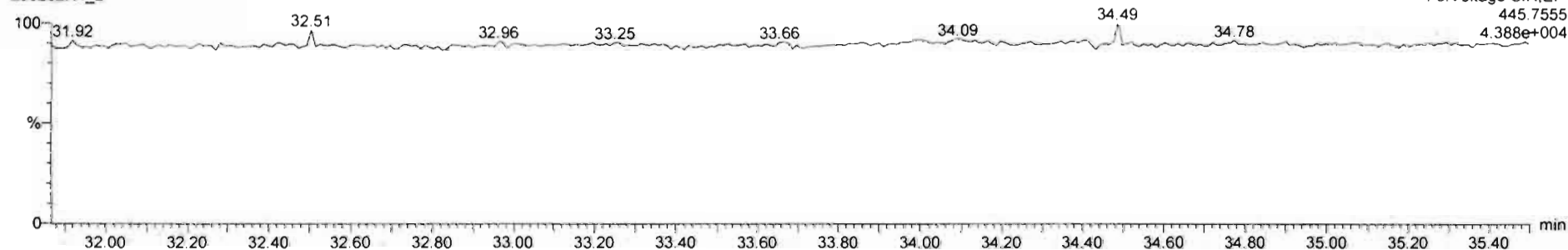


200202R1_2



DPE3

200202R1_2

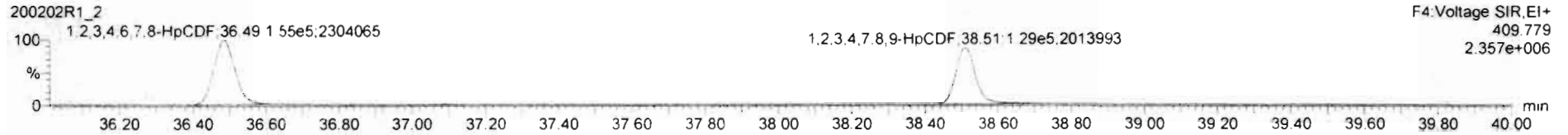
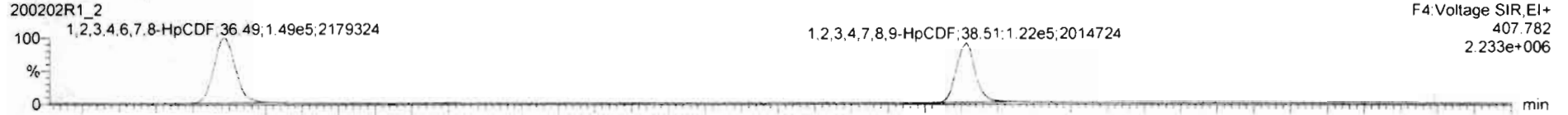


Dataset: Untitled

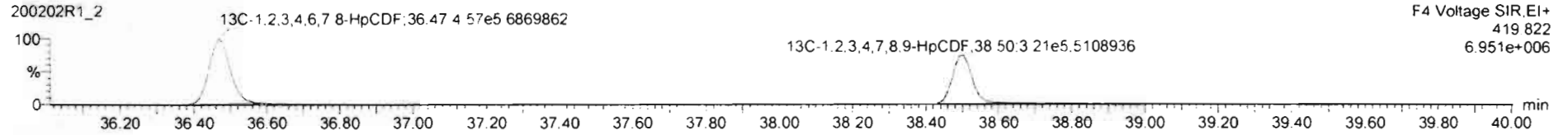
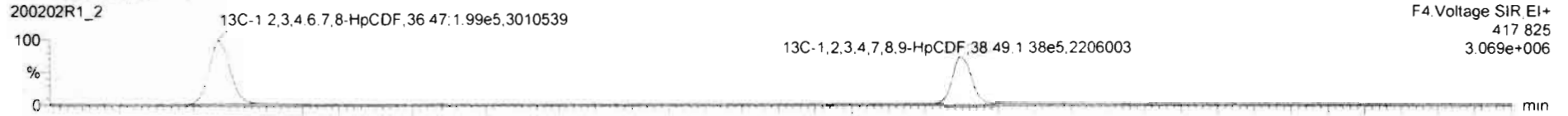
Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

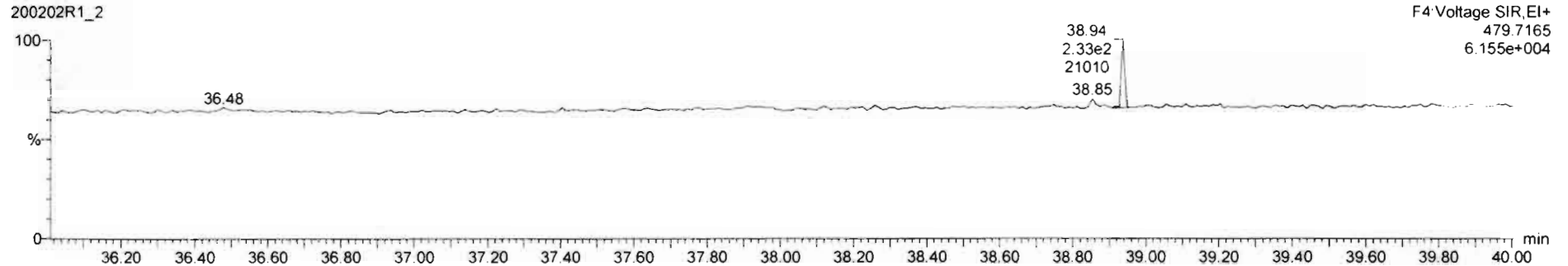
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



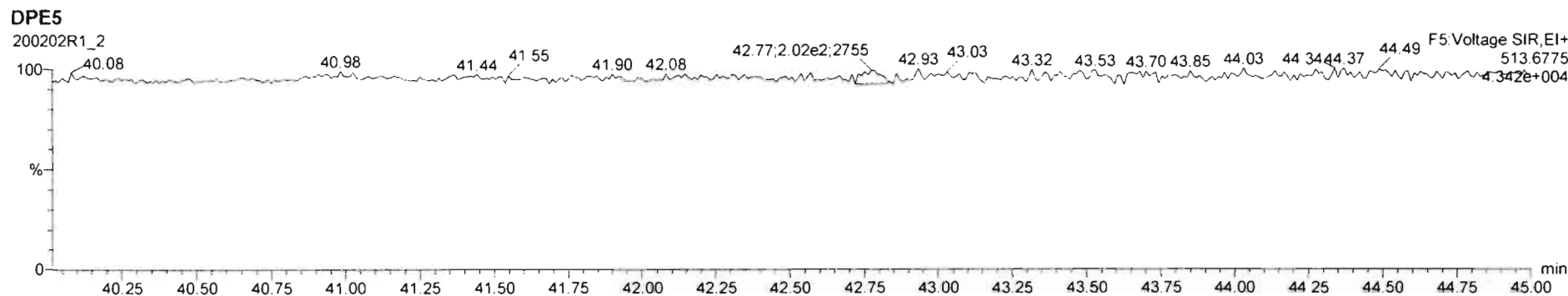
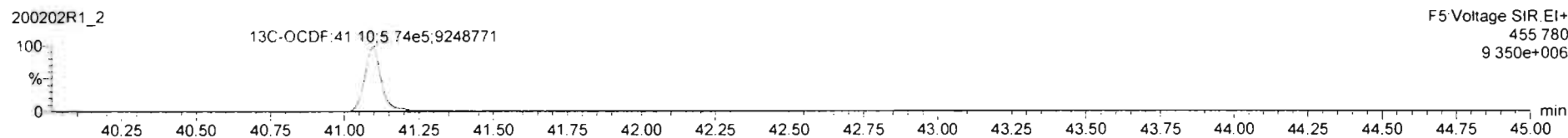
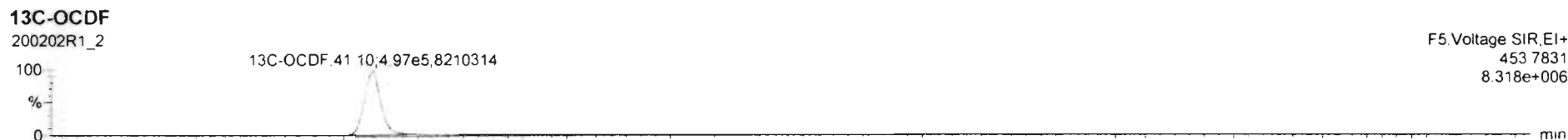
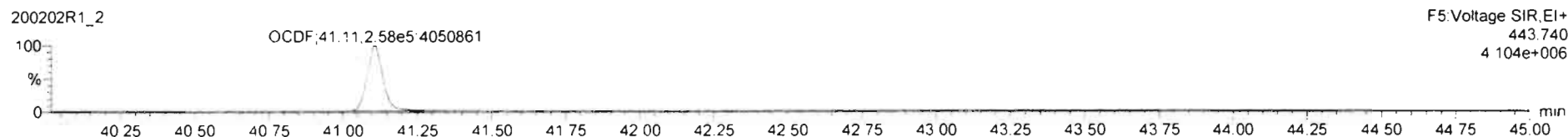
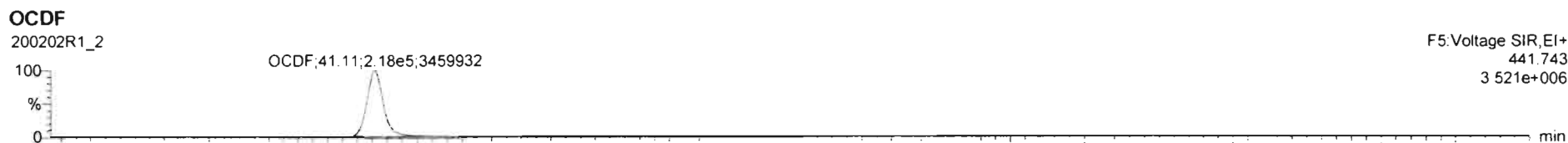
DPE4



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

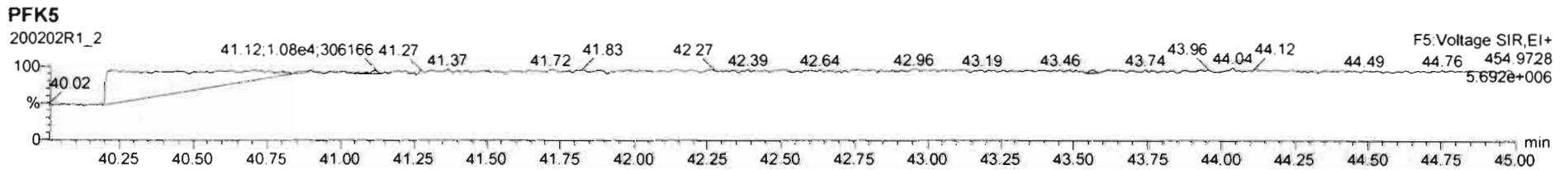
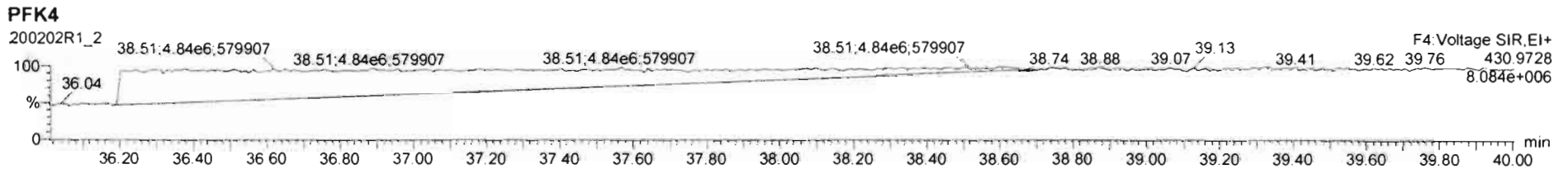
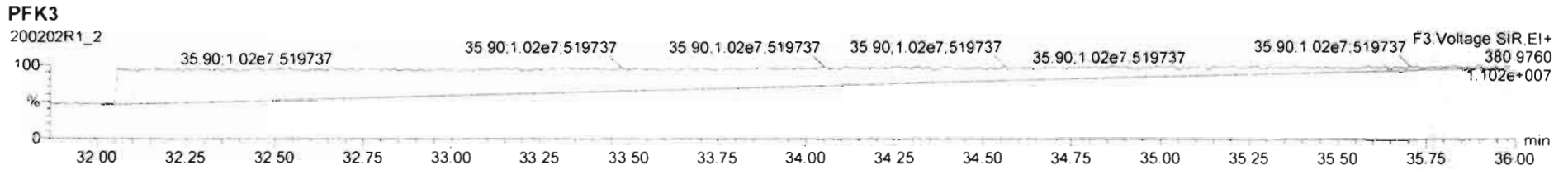
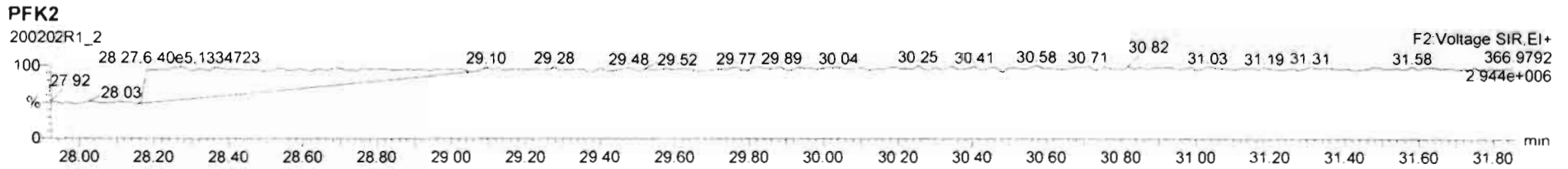
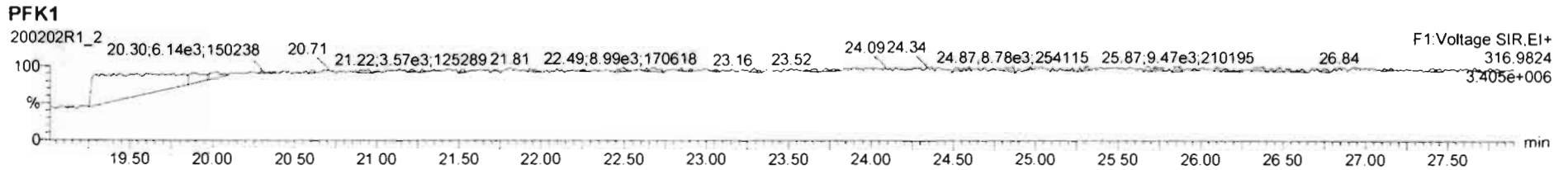


Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

GRB 03/19/2020

C1 03/23/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.983	10.000	25.781		1.001				0.0922	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.000	31.071		1.001				0.0728	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.000	34.459		1.000				0.0698	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.000	34.555		1.000				0.0693	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.000	34.831		1.000				0.0799	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.01	10.000	38.251		1.000				0.130	
7	7 OCDD	6.44e2	0.84	NO	1.05	10.000	41.308	41.31	1.000	1.000	0.45142		0.220	0.451
8	8 2,3,7,8-TCDF			NO	0.915	10.000	24.772		1.001				0.0540	
9	9 1,2,3,7,8-PeCDF			NO	0.959	10.000	29.727		1.001				0.0445	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.000	30.759		1.001				0.0429	
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	10.000	33.607		1.000				0.0414	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.734		1.000				0.0401	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.000	34.323		1.001				0.0398	
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	10.000	35.162		1.000				0.0574	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.882		1.001				0.0613	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.000	38.901		1.000				0.0772	
17	17 OCDF			NO	0.947	10.000	41.489		1.000				0.144	
18	18 13C-2,3,7,8-TCDD	6.98e5	0.77	NO	1.18	10.000	25.750	25.75	1.029	1.029	159.97	80.0	0.351	
19	19 13C-1,2,3,7,8-PeCDD	5.37e5	0.63	NO	0.864	10.000	30.937	31.05	1.236	1.240	168.74	84.4	0.312	
20	20 13C-1,2,3,4,7,8-HxCDD	3.88e5	1.27	NO	0.754	10.000	34.463	34.45	1.014	1.013	143.25	71.6	0.420	
21	21 13C-1,2,3,6,7,8-HxCDD	4.67e5	1.27	NO	0.925	10.000	34.572	34.56	1.017	1.017	140.60	70.3	0.342	
22	22 13C-1,2,3,7,8,9-HxCDD	4.28e5	1.26	NO	0.829	10.000	34.834	34.82	1.025	1.024	143.93	72.0	0.382	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.29e5	1.07	NO	0.598	10.000	38.294	38.24	1.127	1.125	153.13	76.6	0.389	
24	24 13C-OCDD	5.43e5	0.91	NO	0.571	10.000	41.445	41.31	1.219	1.215	264.85	66.2	0.413	
25	25 13C-2,3,7,8-TCDF	9.44e5	0.77	NO	1.09	10.000	24.772	24.75	0.990	0.989	142.57	71.3	0.450	
26	26 13C-1,2,3,7,8-PeCDF	7.97e5	1.56	NO	0.876	10.000	29.608	29.71	1.183	1.187	149.57	74.8	0.614	
27	27 13C-2,3,4,7,8-PeCDF	7.58e5	1.55	NO	0.844	10.000	30.619	30.73	1.223	1.228	147.89	73.9	0.638	
28	28 13C-1,2,3,4,7,8-HxCDF	5.66e5	0.51	NO	1.00	10.000	33.610	33.61	0.989	0.989	157.71	78.9	0.385	
29	29 13C-1,2,3,6,7,8-HxCDF	6.28e5	0.52	NO	1.12	10.000	33.719	33.72	0.992	0.992	156.68	78.3	0.344	
30	30 13C-2,3,4,6,7,8-HxCDF	5.76e5	0.52	NO	1.04	10.000	34.300	34.29	1.009	1.009	155.14	77.6	0.372	
31	31 13C-1,2,3,7,8,9-HxCDF	4.75e5	0.52	NO	0.873	10.000	35.174	35.16	1.035	1.034	151.73	75.9	0.441	

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.11e5	0.43	NO	0.771	10.000	36.890	36.85	1.085	1.084	148.51	74.3	0.420	
33	13C-1,2,3,4,7,8,9-HpCDF	2.87e5	0.44	NO	0.519	10.000	38.977	38.90	1.147	1.144	154.03	77.0	0.624	
34	13C-OCDF	6.81e5	0.88	NO	0.696	10.000	41.625	41.49	1.225	1.221	272.45	68.1	0.342	
35	37Cl-2,3,7,8-TCDD	2.68e5			1.17	10.000	25.760	25.78	1.029	1.030	61.852	77.3	0.0484	
36	13C-1,2,3,4-TCDD	7.37e5	0.79	NO	1.00	10.000	25.050	25.03	1.000	1.000	200.00	100	0.416	
37	13C-1,2,3,4-TCDF	1.22e6	0.80	NO	1.00	10.000	23.190	23.09	1.000	1.000	200.00	100	0.490	
38	13C-1,2,3,4,6,9-HxCDF	7.18e5	0.51	NO	1.00	10.000	33.880	33.99	1.000	1.000	200.00	100	0.385	
39	Total Tetra-Dioxins				0.983	10.000	24.620		0.000				0.0565	
40	Total Penta-Dioxins				0.921	10.000	29.960		0.000				0.0336	
41	Total Hexa-Dioxins				0.984	10.000	33.635		0.000				0.0403	
42	Total Hepta-Dioxins				1.01	10.000	37.640		0.000				0.0775	
43	Total Tetra-Furans				0.915	10.000	23.610		0.000				0.0239	
44	1st Func. Penta-Furans				0.959	10.000	27.090		0.000				0.0112	
45	Total Penta-Furans				0.959	10.000	29.275		0.000				0.0184	
46	Total Hexa-Furans				1.09	10.000	33.555		0.000				0.0227	
47	Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0352	

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Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

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Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hepta-Furans

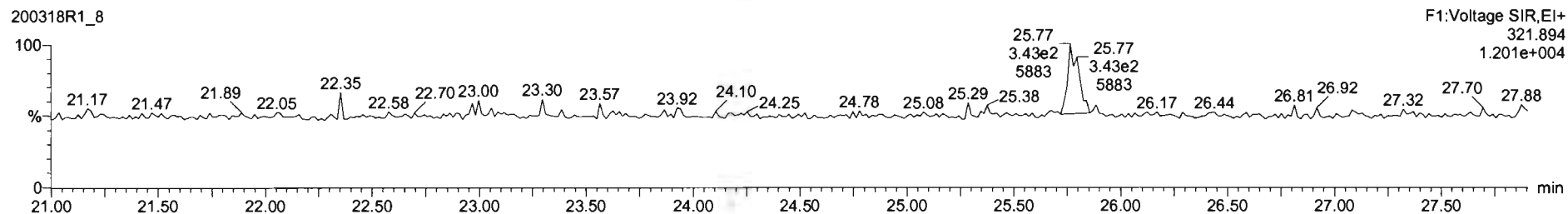
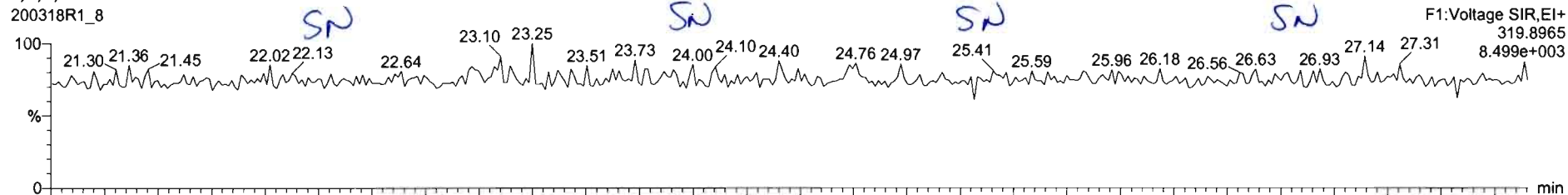
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1												

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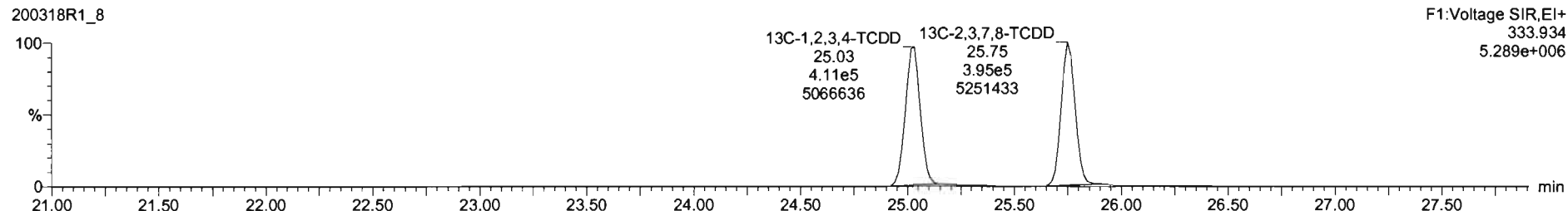
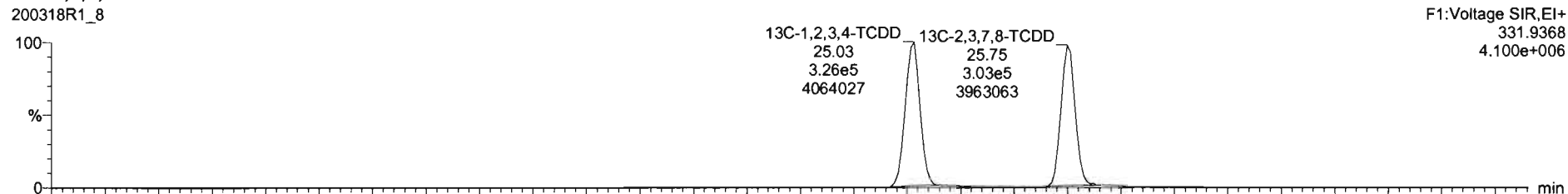
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



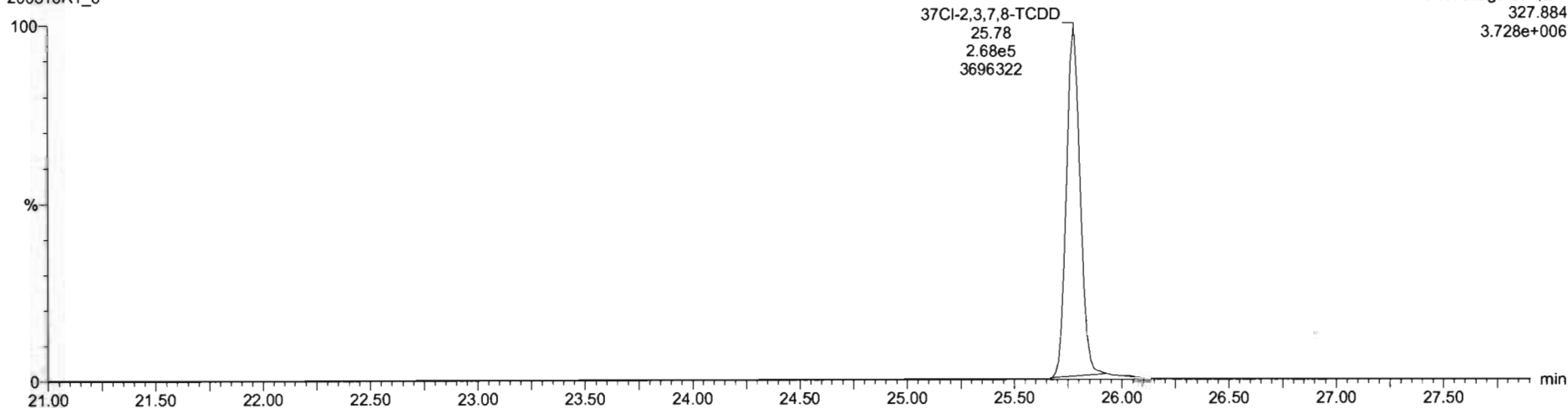
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Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

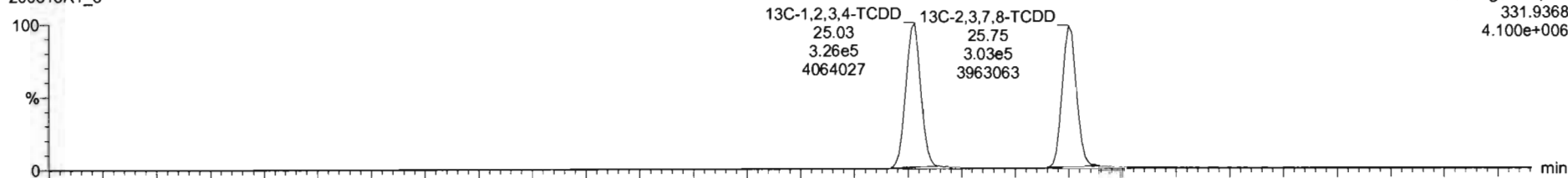
37Cl-2,3,7,8-TCDD

200318R1_8

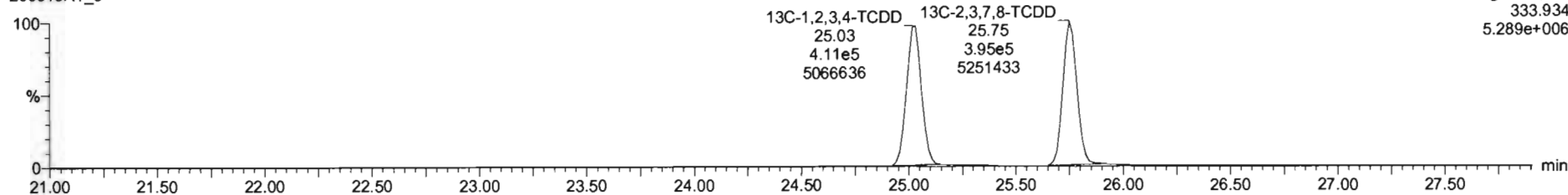


13C-1,2,3,4-TCDD

200318R1_8



200318R1_8

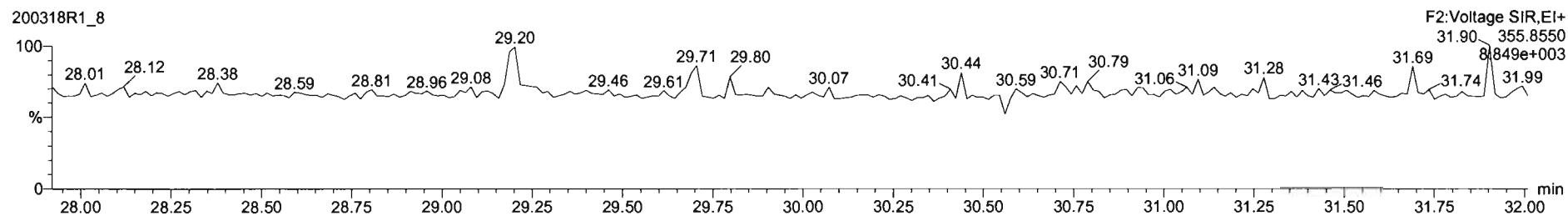
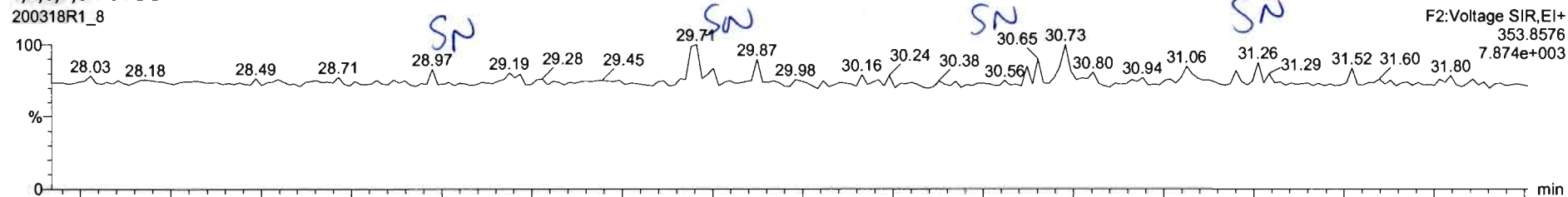


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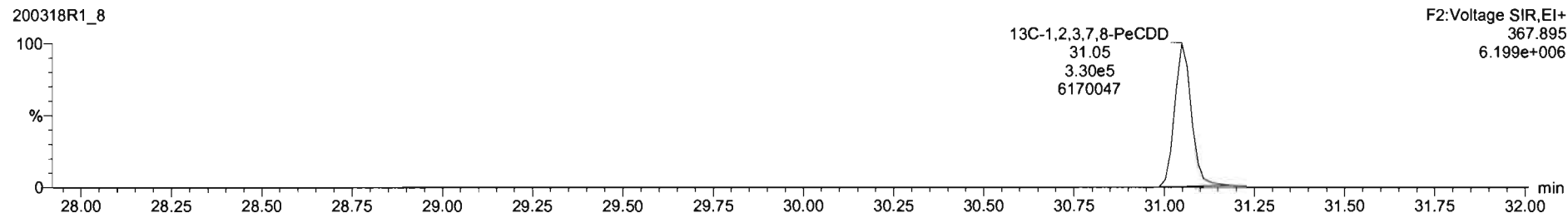
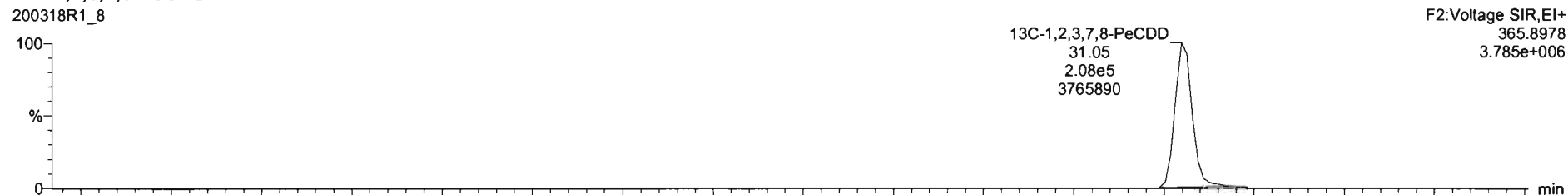
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

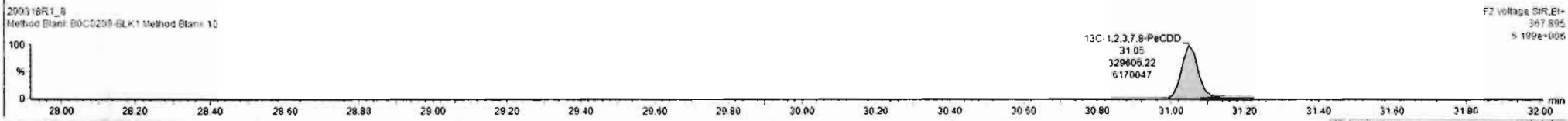
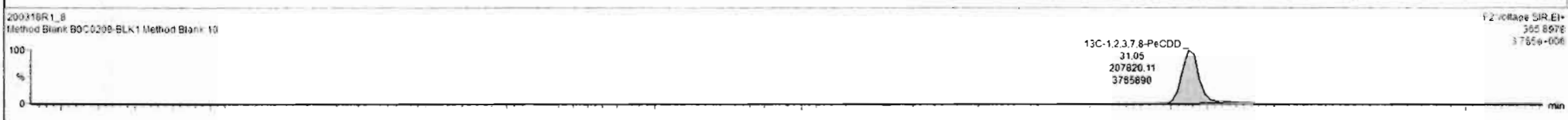
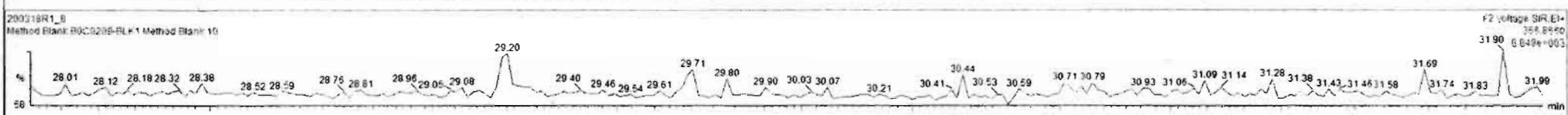
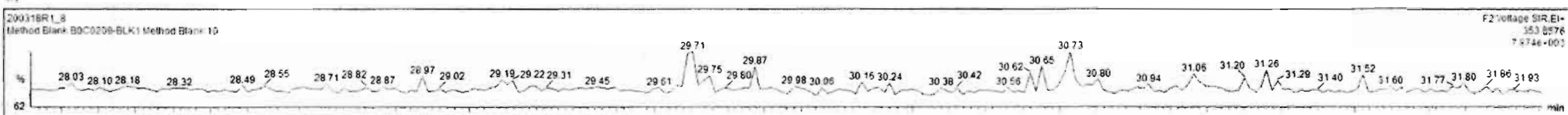


13C-1,2,3,7,8-PeCDD



Name	Resp	RA	ny	RRF	w%vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.983E	10.000					0.0565	
40 Total Penta-Dioxins				0.8212	10.000					0.0336	

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1							

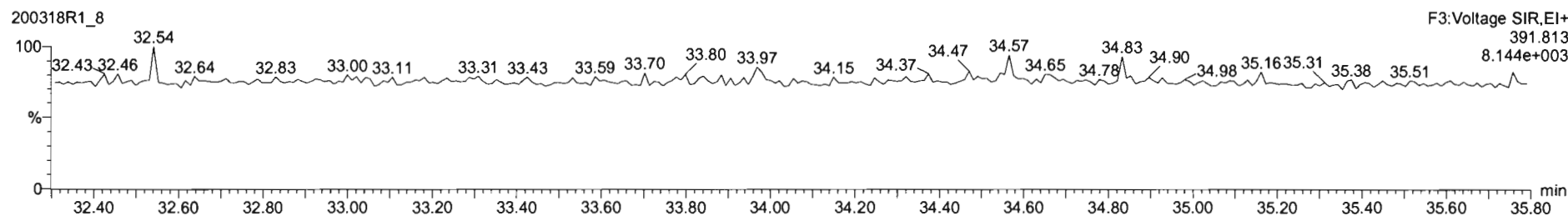
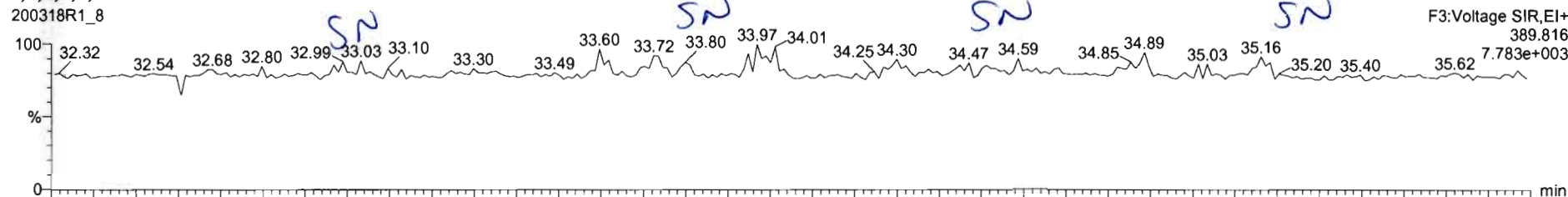


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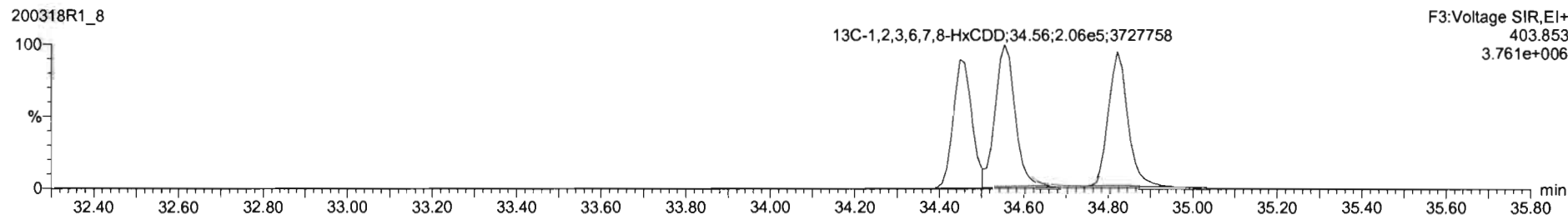
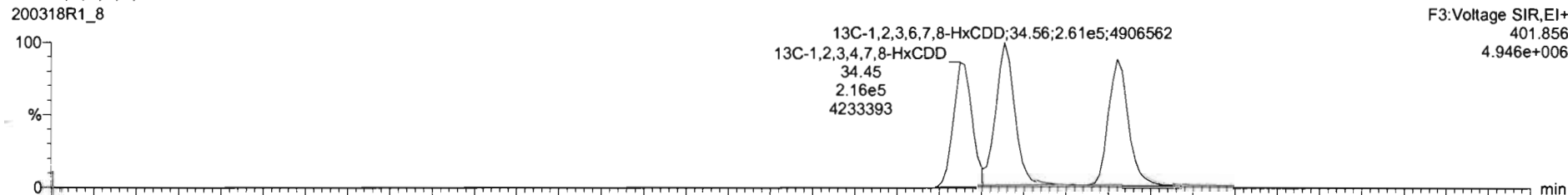
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



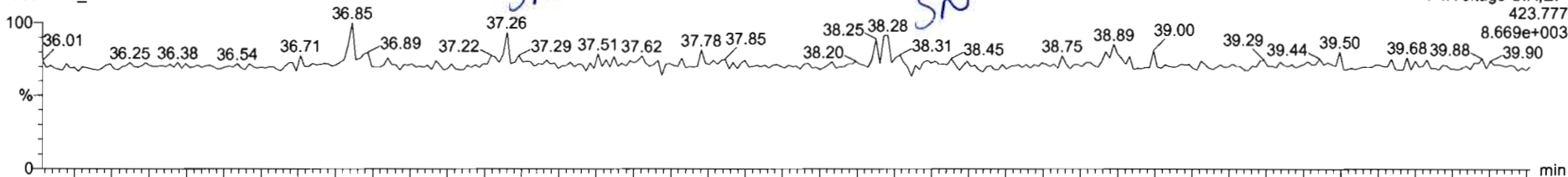
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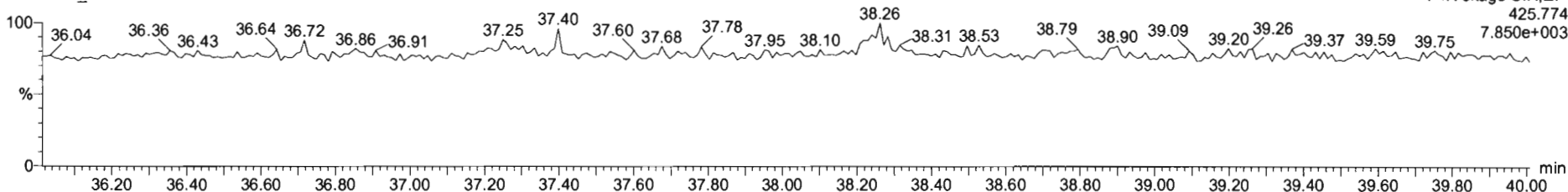
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1,2,3,4,6,7,8-HpCDD

200318R1_8

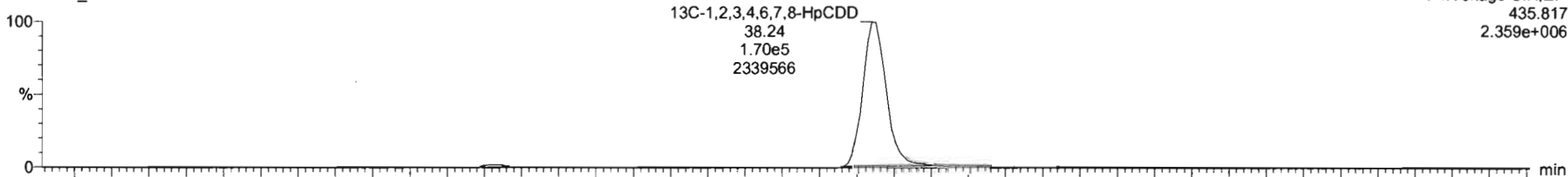


200318R1_8

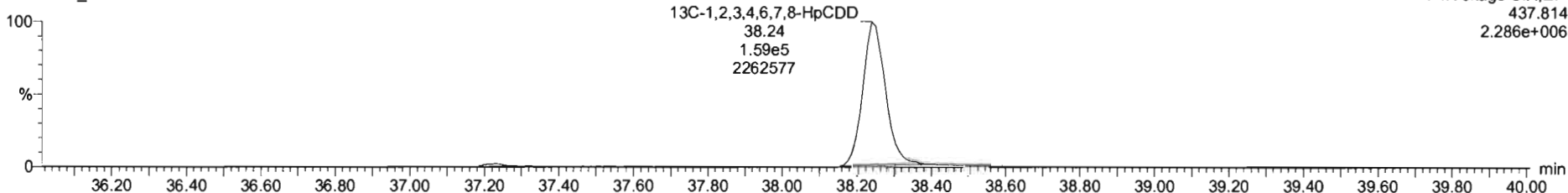


13C-1,2,3,4,6,7,8-HpCDD

200318R1_8



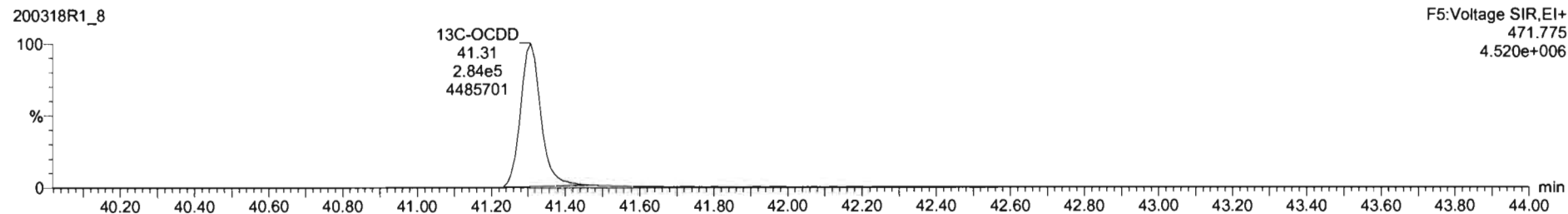
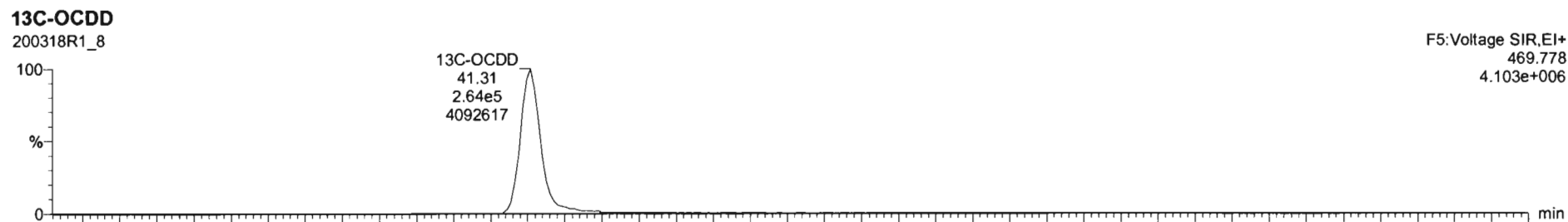
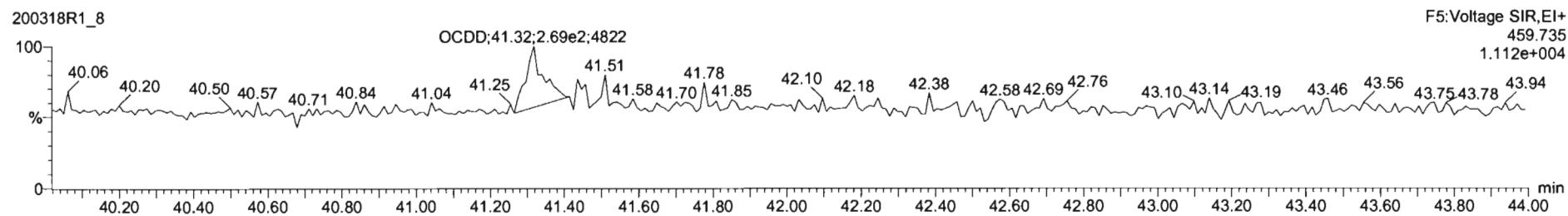
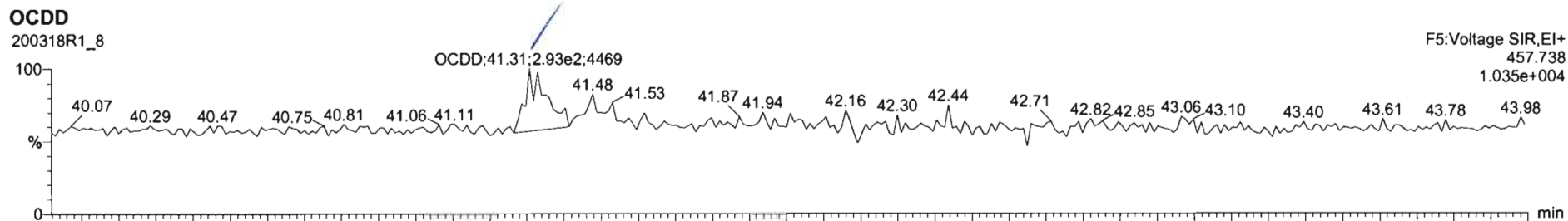
200318R1_8



Dataset: Untitled

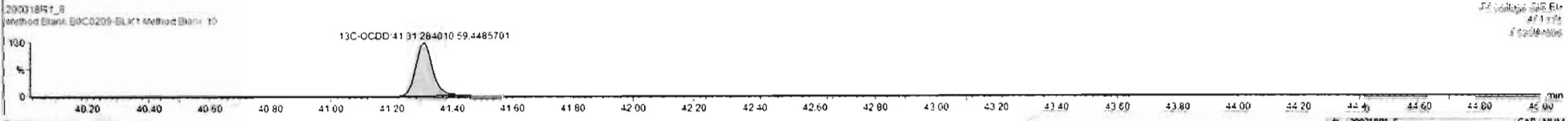
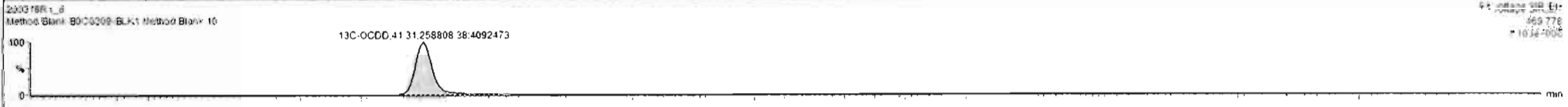
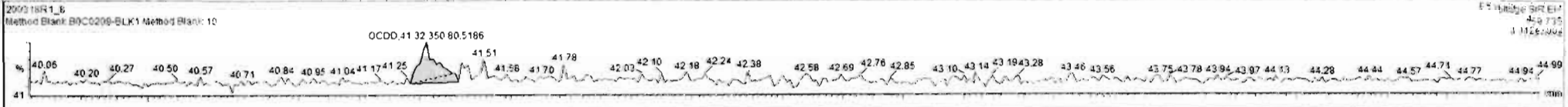
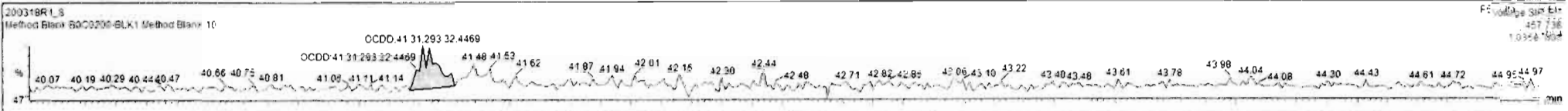
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	6.44e2	0.84	NO	1.0515	10.000	41.31	1.000	0.451	0.220	0.451
8	2,3,7,8-TCDF			NO	0.8154	10.000				0.0540	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							

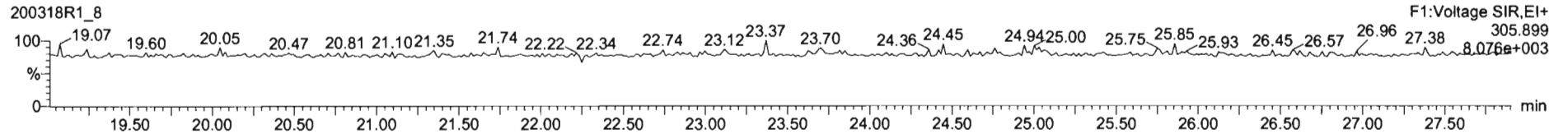
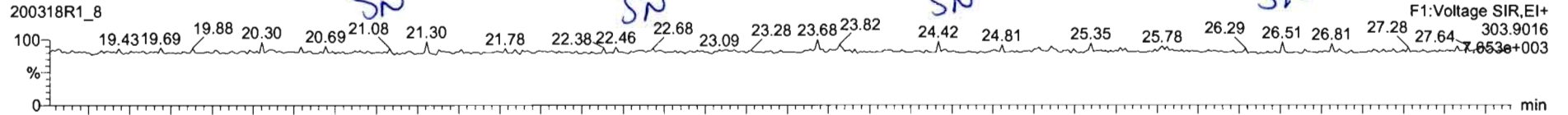


Dataset: Untitled

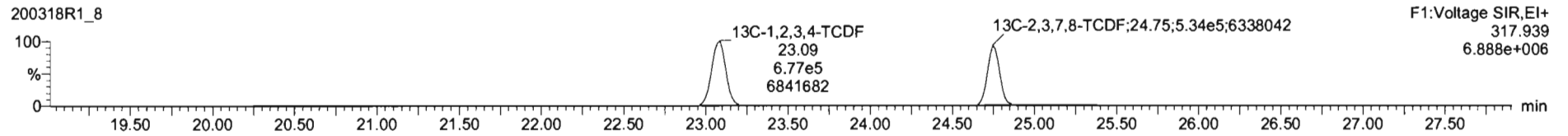
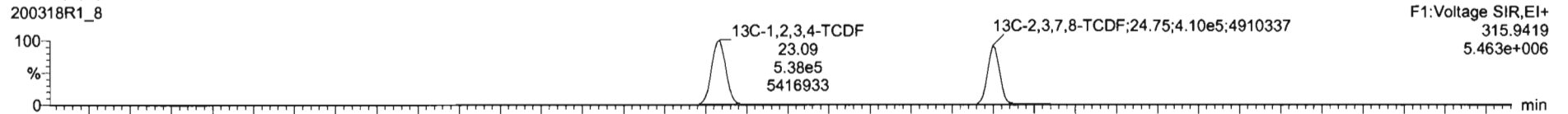
Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

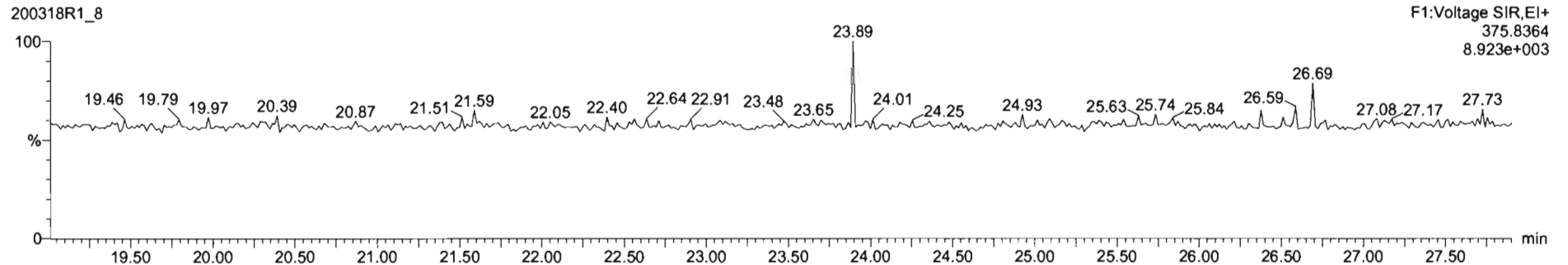
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

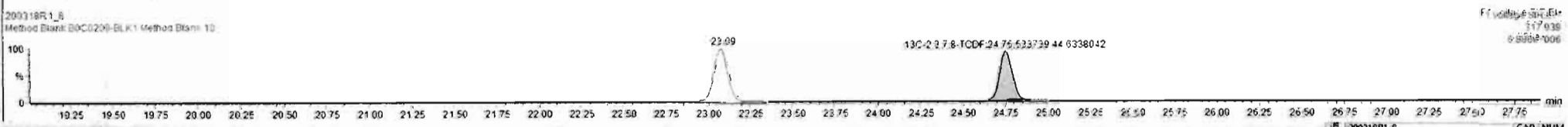
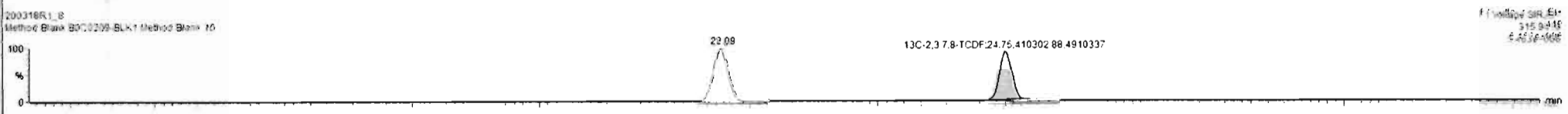
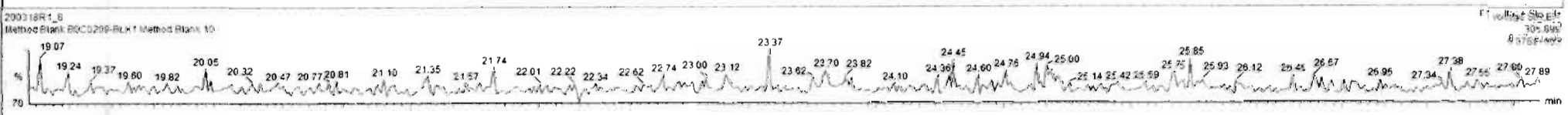
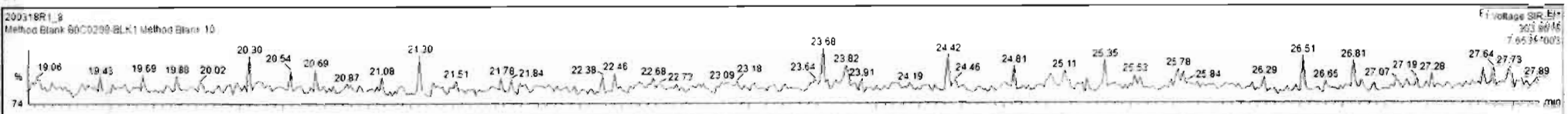


DPE1



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.00E1	10.000					0.0775	
43 Total Tetra-Furans				0.9154	10.000					0.0239	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



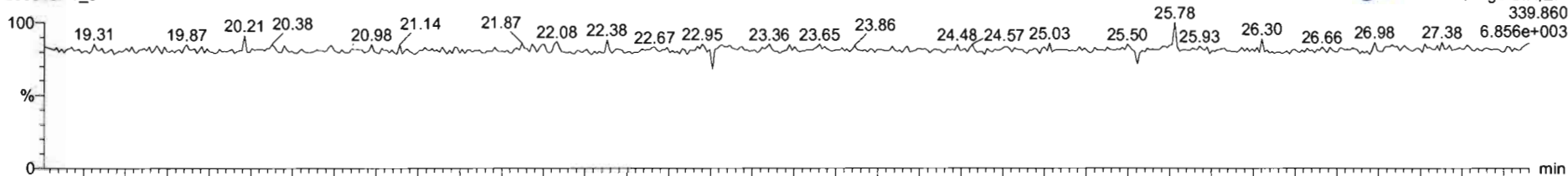
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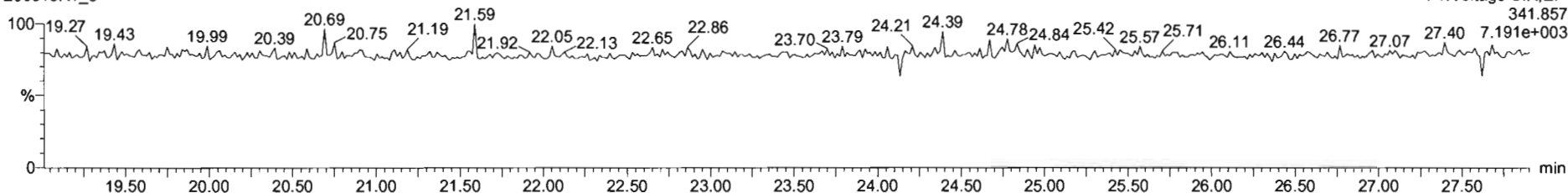
Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200318R1_8

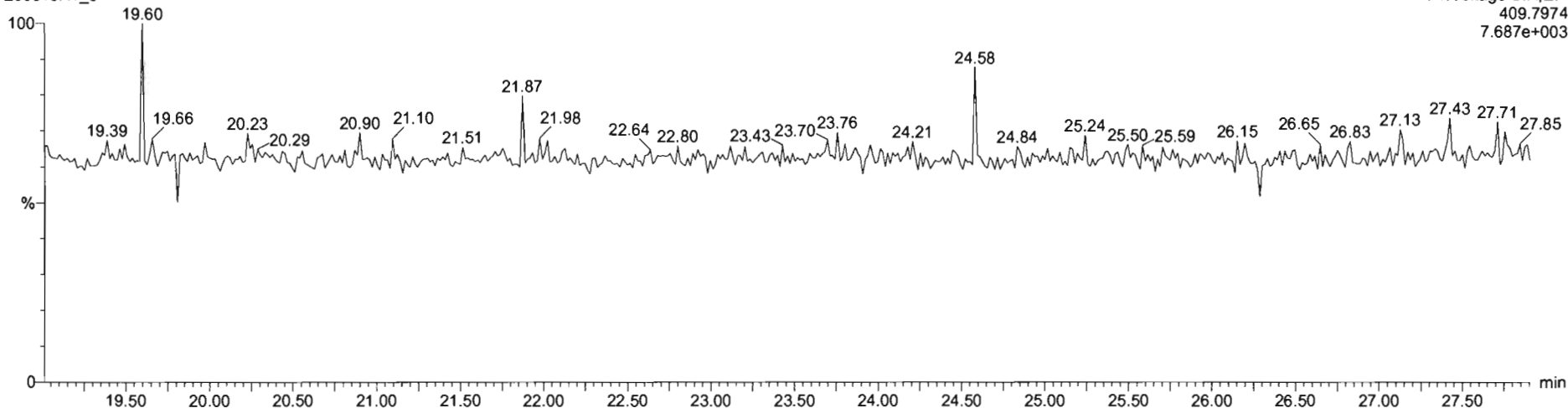


200318R1_8



DPE6

200318R1_8



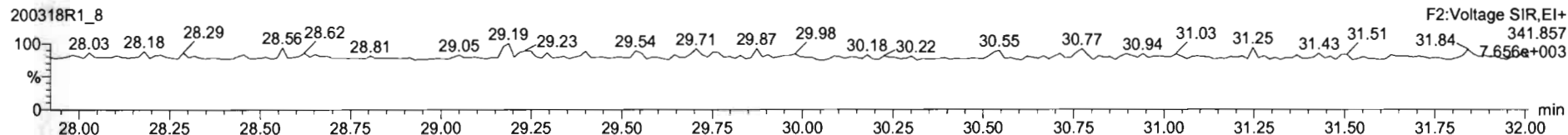
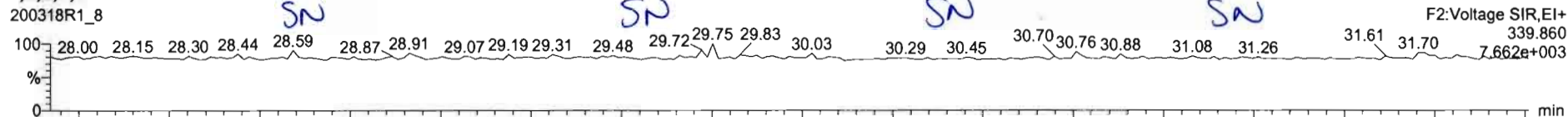
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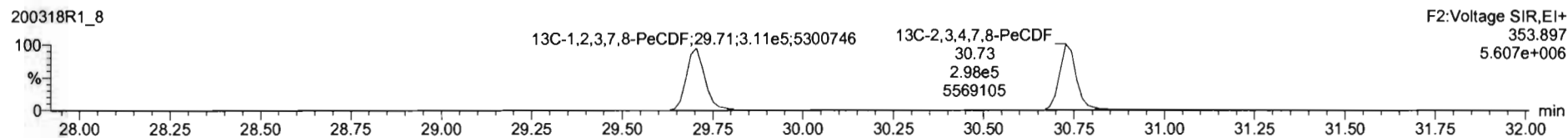
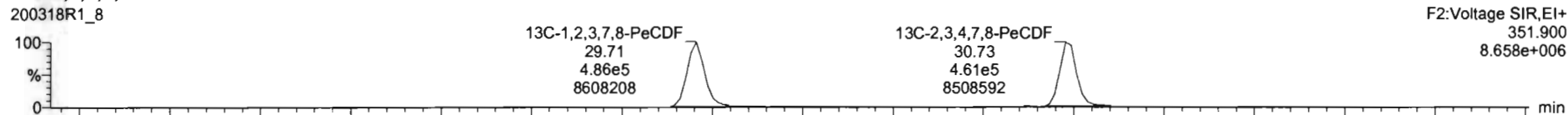
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

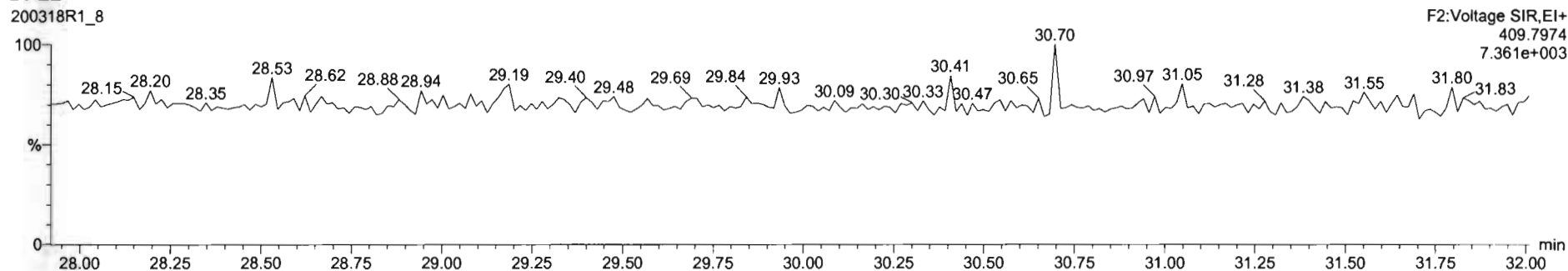
1,2,3,7,8-PeCDF

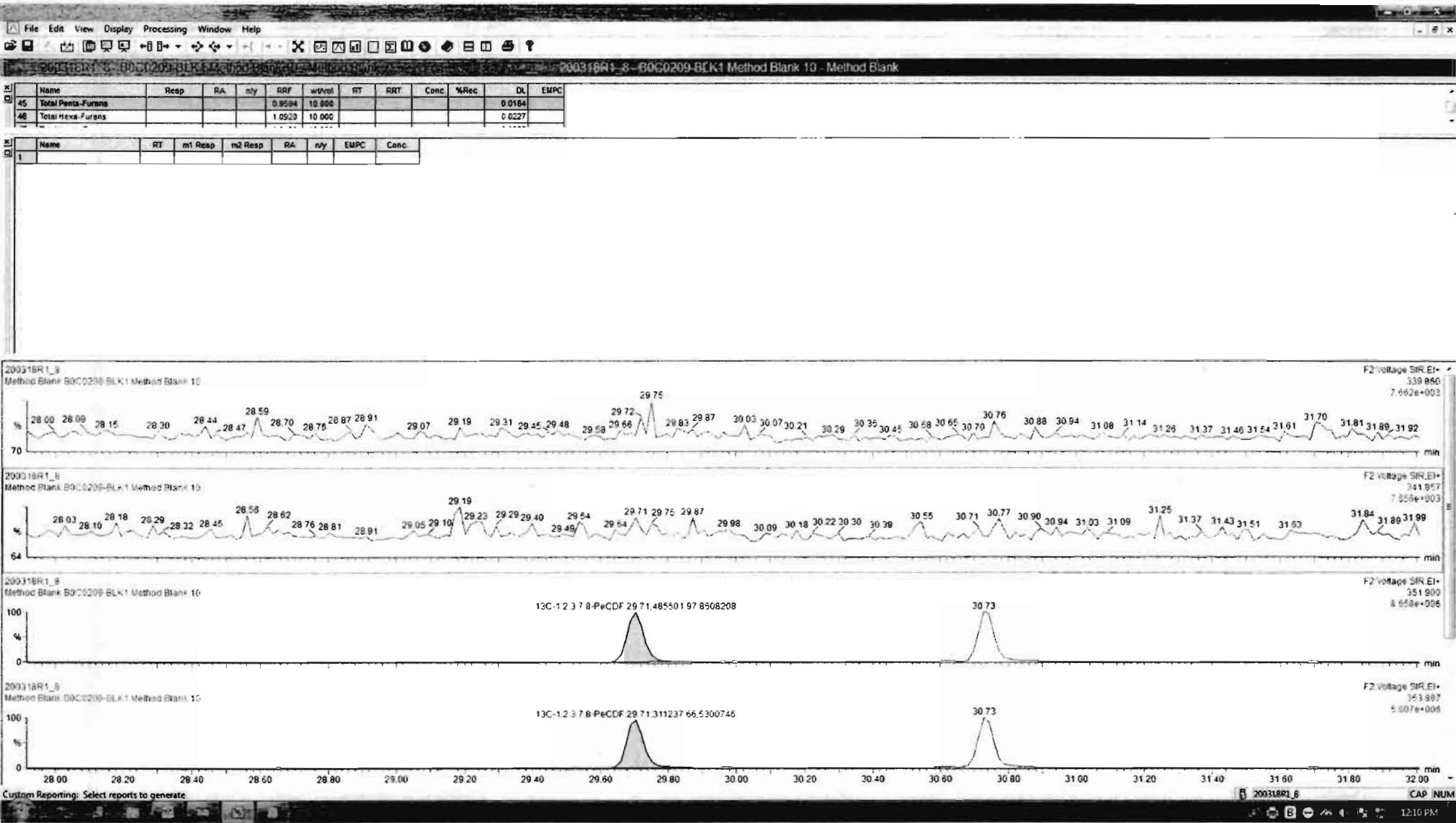


13C-1,2,3,7,8-PeCDF



DPE2



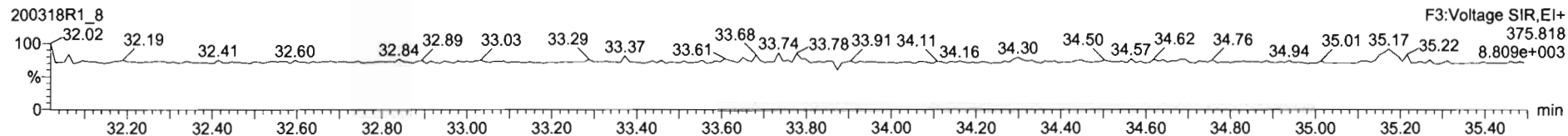
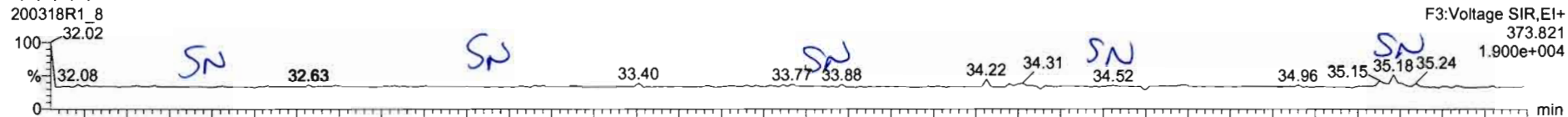


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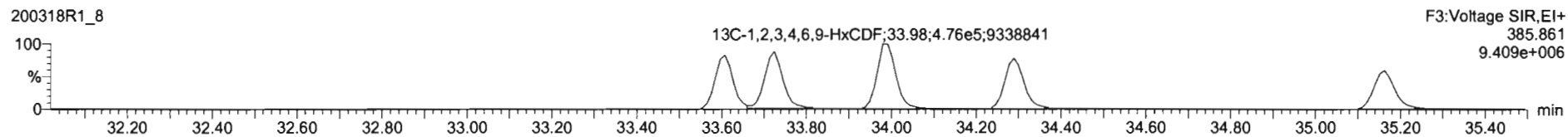
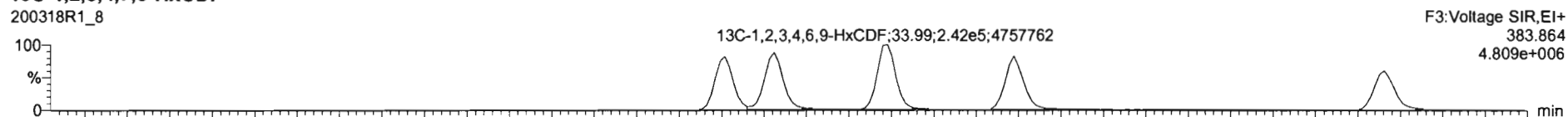
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

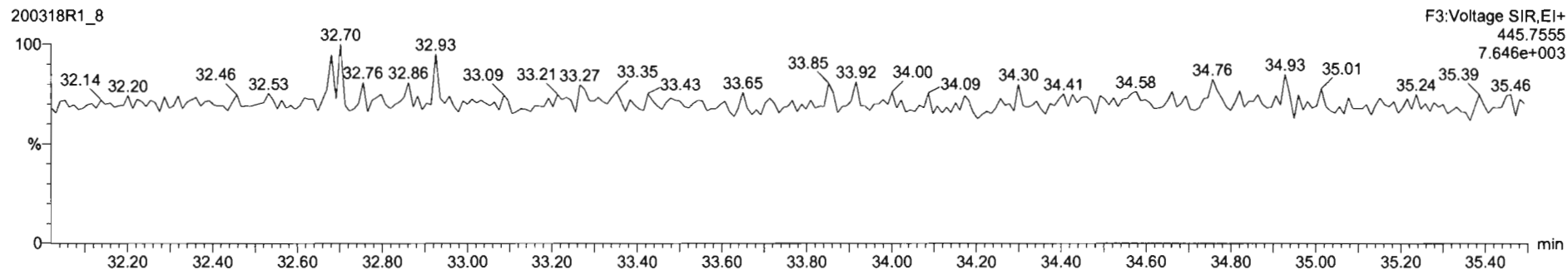
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

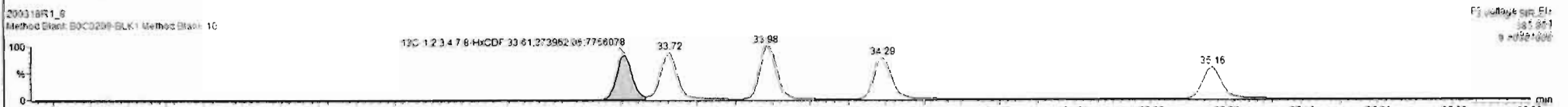
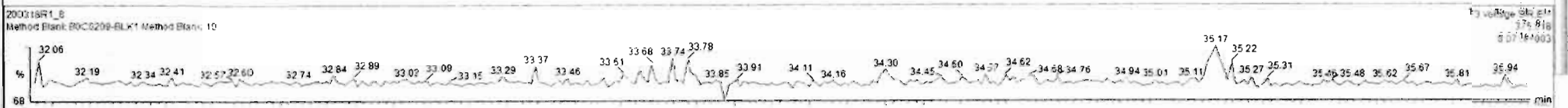
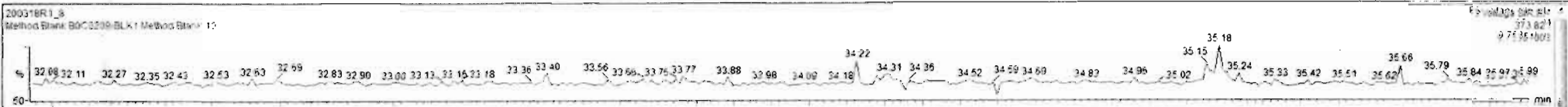


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000					0.0184	
46 Total Hexa-Furans				1.0920	10.000					0.0227	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							

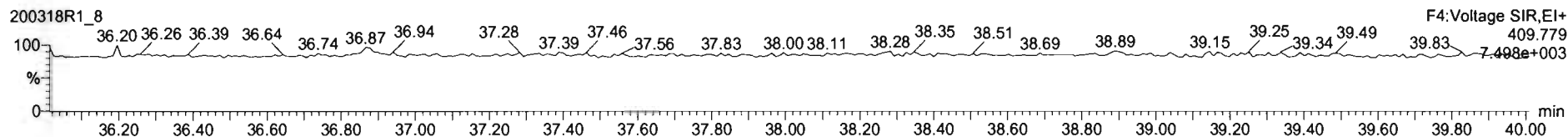
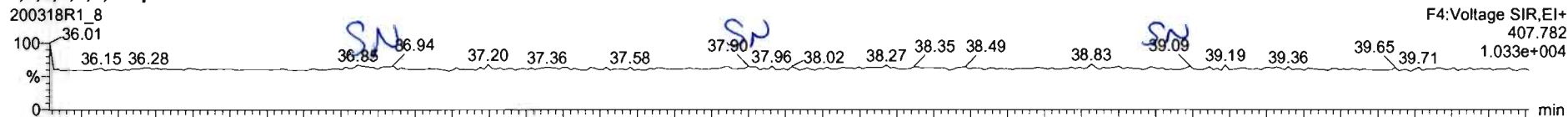


Dataset: Untitled

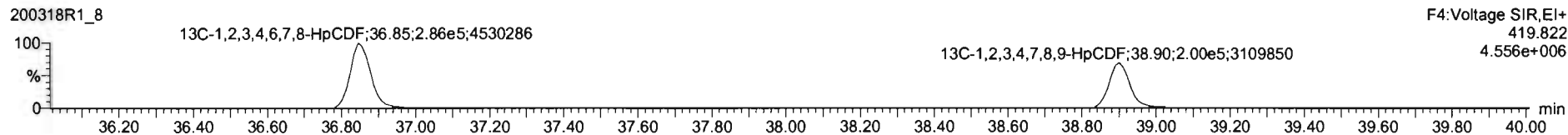
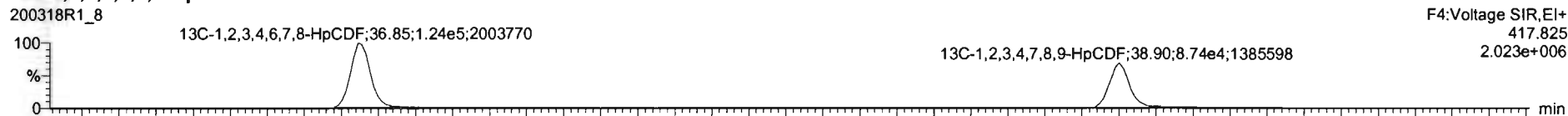
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

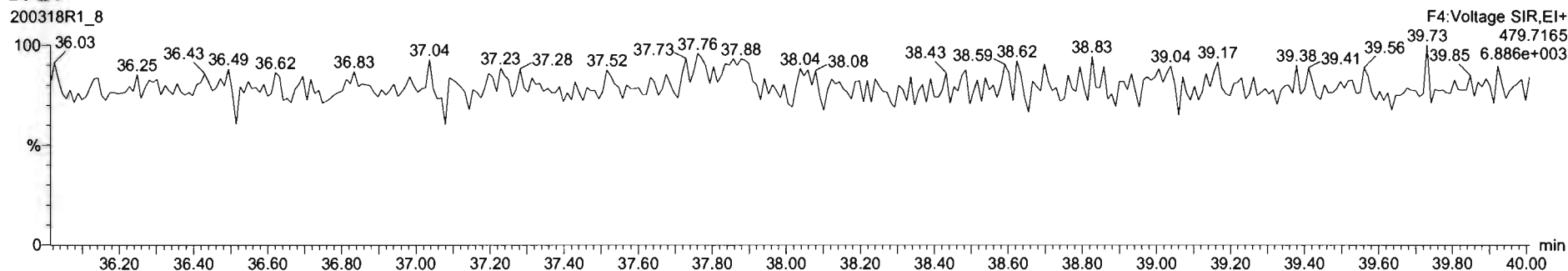
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

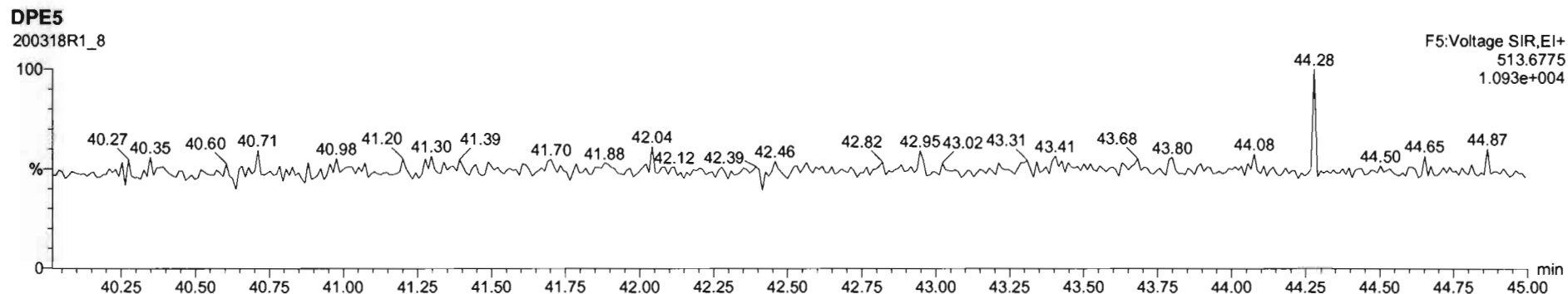
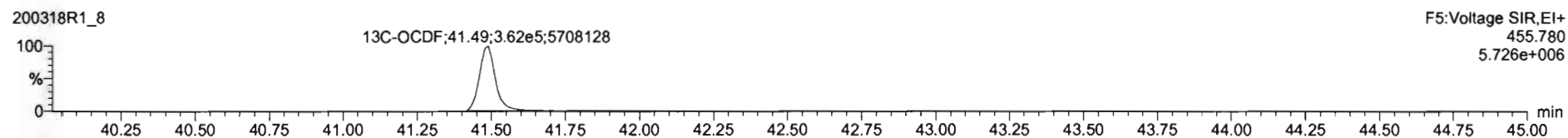
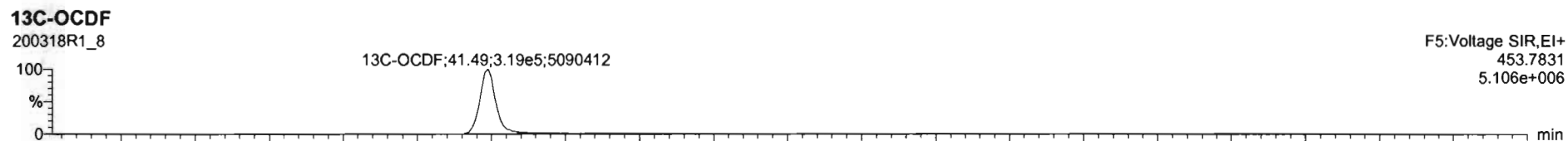
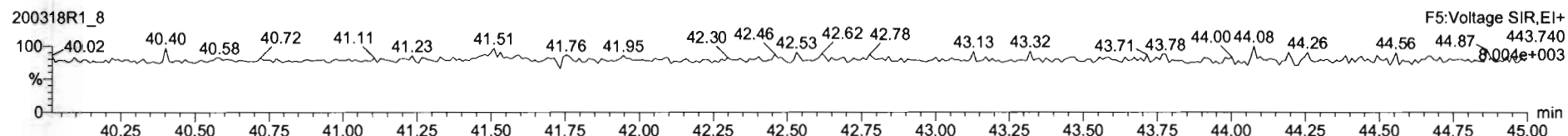
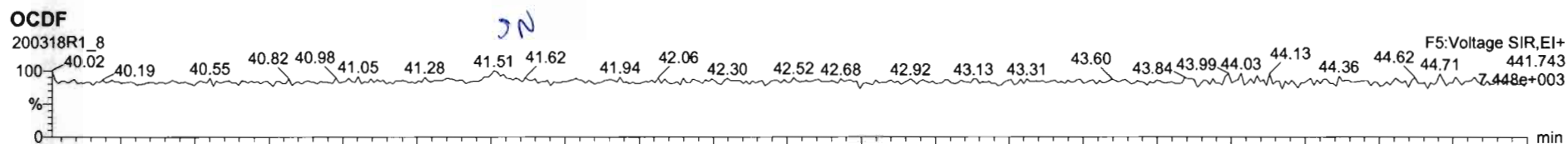


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Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time

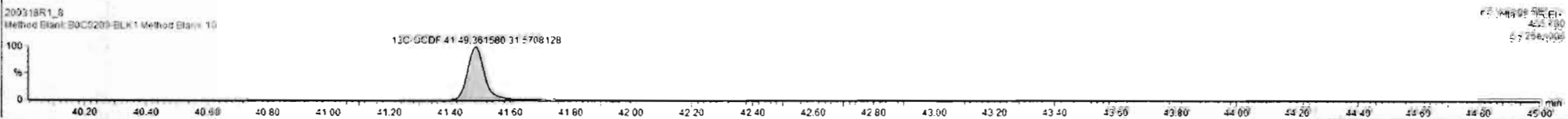
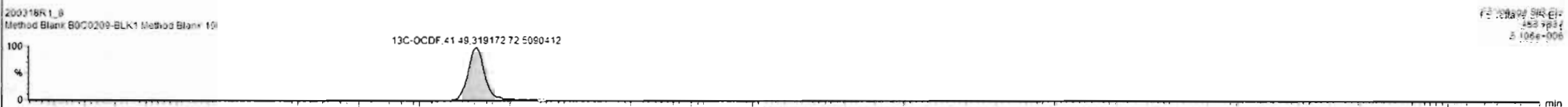
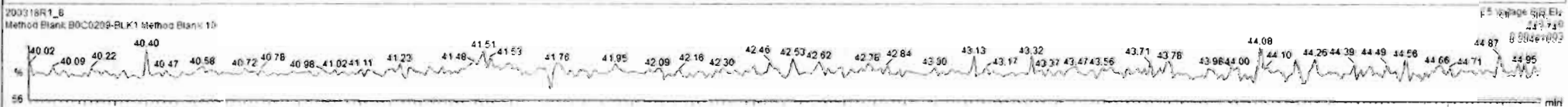
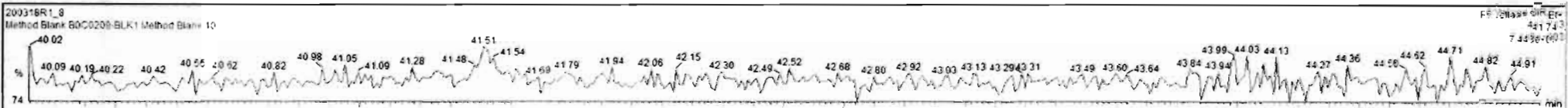
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	w/wtd	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF		NO	0.9468	10.000					0.144	
18	13C-2,3,7,8-TCDD	6.98e5	0.77	NO	1.1842	10.000	25.75	1.029	160	60.0	0.351

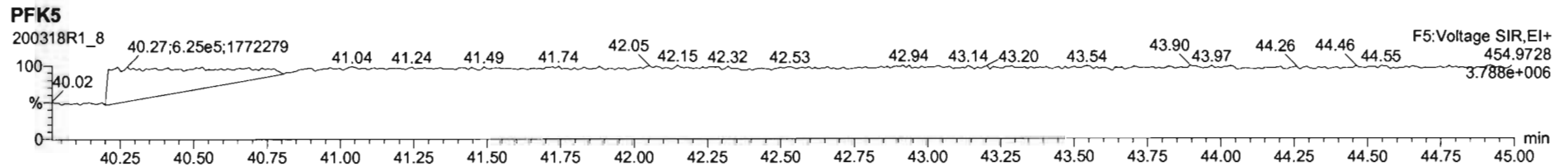
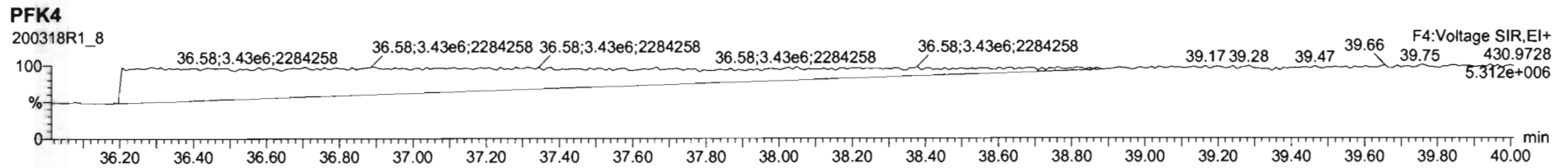
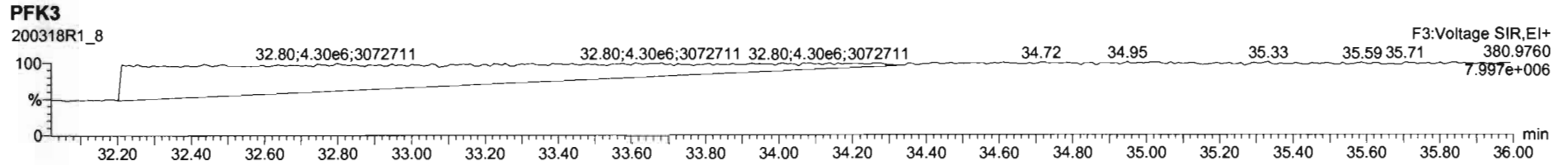
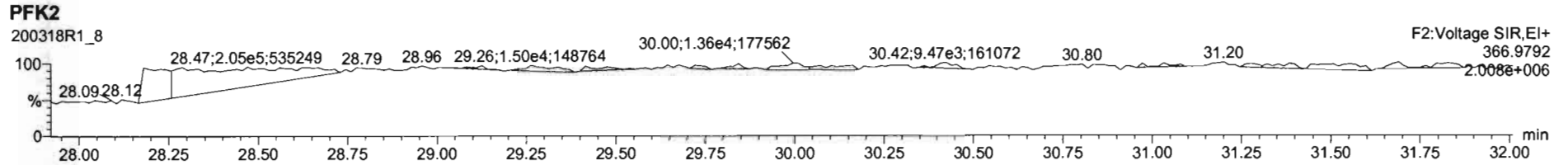
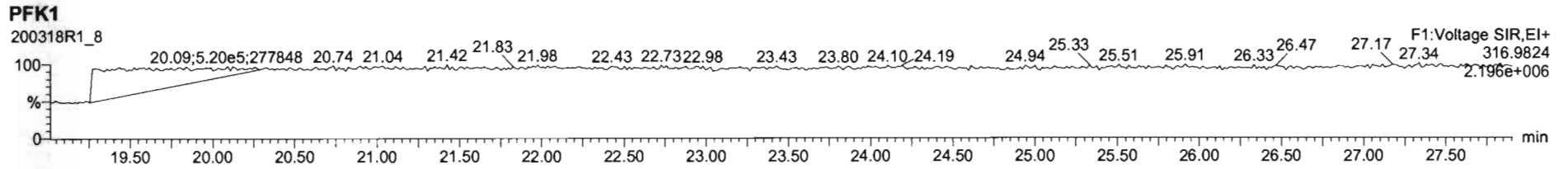
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200318R1\200318R1-4.qld

Last Altered: Thursday, March 19, 2020 12:14:39 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 12:15:24 PM Pacific Daylight Time

GRB 03/19/2020

C703/23/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.77e4	0.75	NO	0.983	10.000	25.796	25.80	1.001	1.001	17.168		0.0925	17.2
2	2 1,2,3,7,8-PeCDD	2.81e5	0.62	NO	0.921	10.000	31.086	31.08	1.001	1.000	90.745		0.161	90.7
3	3 1,2,3,4,7,8-HxCDD	2.71e5	1.25	NO	1.13	10.000	34.469	34.48	1.000	1.001	92.825		0.179	92.8
4	4 1,2,3,6,7,8-HxCDD	2.86e5	1.25	NO	0.984	10.000	34.566	34.58	1.000	1.000	93.445		0.183	93.4
5	5 1,2,3,7,8,9-HxCDD	2.68e5	1.26	NO	0.967	10.000	34.842	34.84	1.000	1.000	94.712		0.206	94.7
6	6 1,2,3,4,6,7,8-HpCDD	2.12e5	1.06	NO	1.01	10.000	38.262	38.27	1.000	1.001	92.696		0.344	92.7
7	7 OCDD	3.40e5	0.90	NO	1.05	10.000	41.308	41.32	1.000	1.000	175.72		0.229	176
8	8 2,3,7,8-TCDF	8.72e4	0.77	NO	0.915	10.000	24.787	24.79	1.001	1.001	18.040		0.0665	18.0
9	9 1,2,3,7,8-PeCDF	4.25e5	1.62	NO	0.959	10.000	29.727	29.72	1.001	1.001	92.678		0.173	92.7
10	10 2,3,4,7,8-PeCDF	4.36e5	1.57	NO	1.00	10.000	30.774	30.76	1.001	1.001	93.250		0.154	93.3
11	11 1,2,3,4,7,8-HxCDF	3.44e5	1.24	NO	1.04	10.000	33.618	33.63	1.000	1.000	92.883		0.196	92.9
12	12 1,2,3,6,7,8-HxCDF	3.91e5	1.22	NO	1.01	10.000	33.745	33.75	1.000	1.000	95.523		0.188	95.5
13	13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.09	10.000	34.334	34.31	1.001	1.000	93.280		0.188	93.3
14	14 1,2,3,7,8,9-HxCDF	3.01e5	1.22	NO	1.03	10.000	35.173	35.18	1.000	1.000	90.590		0.257	90.6
15	15 1,2,3,4,6,7,8-HpCDF	2.74e5	1.01	NO	1.05	10.000	36.904	36.88	1.001	1.000	89.843		0.242	89.8
16	16 1,2,3,4,7,8,9-HpCDF	2.17e5	1.02	NO	1.21	10.000	38.901	38.92	1.000	1.001	91.027		0.326	91.0
17	17 OCDF	4.04e5	0.89	NO	0.947	10.000	41.489	41.50	1.000	1.000	186.19		0.216	186
18	18 13C-2,3,7,8-TCDD	8.02e5	0.78	NO	1.18	10.000	25.766	25.76	1.029	1.029	154.74	77.4	0.264	
19	19 13C-1,2,3,7,8-PeCDD	6.73e5	0.63	NO	0.864	10.000	30.956	31.06	1.236	1.240	177.92	89.0	0.282	
20	20 13C-1,2,3,4,7,8-HxCDD	5.16e5	1.28	NO	0.754	10.000	34.474	34.46	1.014	1.013	155.78	77.9	0.279	
21	21 13C-1,2,3,6,7,8-HxCDD	6.21e5	1.27	NO	0.925	10.000	34.582	34.57	1.017	1.017	152.88	76.4	0.227	
22	22 13C-1,2,3,7,8,9-HxCDD	5.85e5	1.25	NO	0.829	10.000	34.844	34.83	1.025	1.024	160.57	80.3	0.253	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.54e5	1.05	NO	0.598	10.000	38.306	38.25	1.127	1.125	172.69	86.3	0.489	
24	24 13C-OCDD	7.35e5	0.87	NO	0.571	10.000	41.457	41.31	1.219	1.215	293.13	73.3	0.377	
25	25 13C-2,3,7,8-TCDF	1.06e6	0.78	NO	1.09	10.000	24.787	24.76	0.990	0.989	131.53	65.8	0.394	
26	26 13C-1,2,3,7,8-PeCDF	9.56e5	1.56	NO	0.876	10.000	29.626	29.71	1.183	1.186	148.09	74.0	0.398	
27	27 13C-2,3,4,7,8-PeCDF	9.32e5	1.58	NO	0.844	10.000	30.637	30.74	1.223	1.227	149.94	75.0	0.414	
28	28 13C-1,2,3,4,7,8-HxCDF	7.13e5	0.51	NO	1.00	10.000	33.620	33.62	0.989	0.989	162.33	81.2	0.419	
29	29 13C-1,2,3,6,7,8-HxCDF	8.08e5	0.53	NO	1.12	10.000	33.729	33.74	0.992	0.992	164.48	82.2	0.375	
30	30 13C-2,3,4,6,7,8-HxCDF	7.50e5	0.52	NO	1.04	10.000	34.310	34.30	1.009	1.009	165.01	82.5	0.405	
31	31 13C-1,2,3,7,8,9-HxCDF	6.47e5	0.52	NO	0.873	10.000	35.184	35.17	1.035	1.034	168.79	84.4	0.480	

Dataset: U:\WG12.PRO\Results\200318R1\200318R1-4.qld

Last Altered: Thursday, March 19, 2020 12:14:39 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 12:15:24 PM Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.83e5	0.44	NO	0.771	10.000	36.901	36.87	1.085	1.084	172.10	86.0	0.350	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.94e5	0.45	NO	0.519	10.000	38.989	38.90	1.147	1.144	172.76	86.4	0.520	
34	34 13C-OCDF	9.16e5	0.89	NO	0.696	10.000	41.638	41.49	1.225	1.220	299.43	74.9	0.254	
35	35 37Cl-2,3,7,8-TCDD	2.95e5			1.17	10.000	25.776	25.80	1.029	1.030	57.308	71.6	0.0511	
36	36 13C-1,2,3,4-TCDD	8.75e5	0.80	NO	1.00	10.000	25.050	25.05	1.000	1.000	200.00	100	0.313	
37	37 13C-1,2,3,4-TCDF	1.47e6	0.78	NO	1.00	10.000	23.190	23.10	1.000	1.000	200.00	100	0.430	
38	38 13C-1,2,3,4,6,9-HxCDF	8.79e5	0.52	NO	1.00	10.000	33.880	34.00	1.000	1.000	200.00	100	0.419	

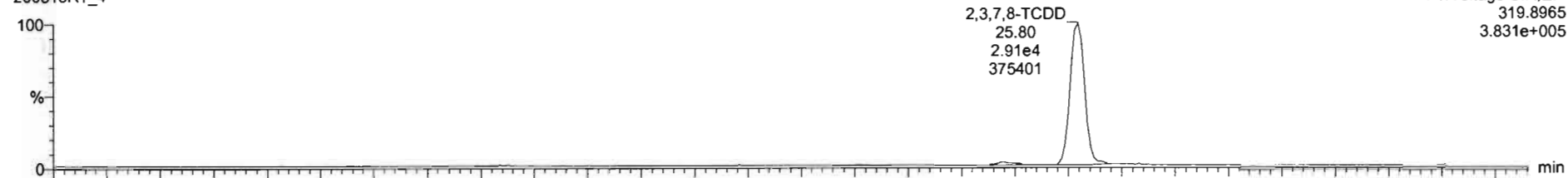
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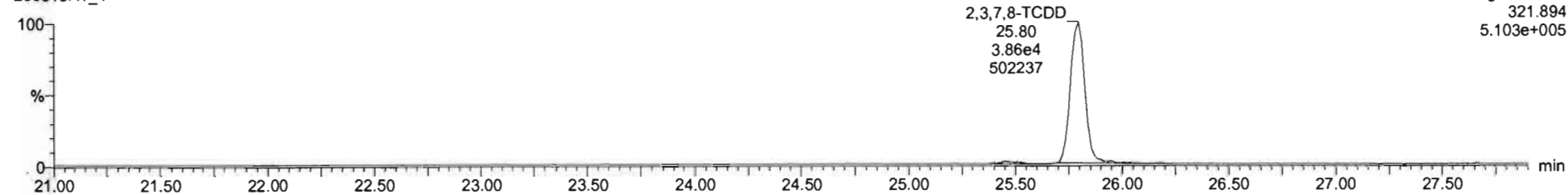
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2,3,7,8-TCDD

200318R1_4

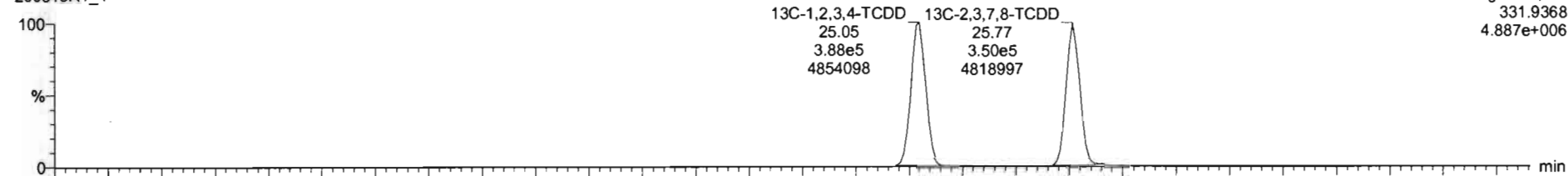


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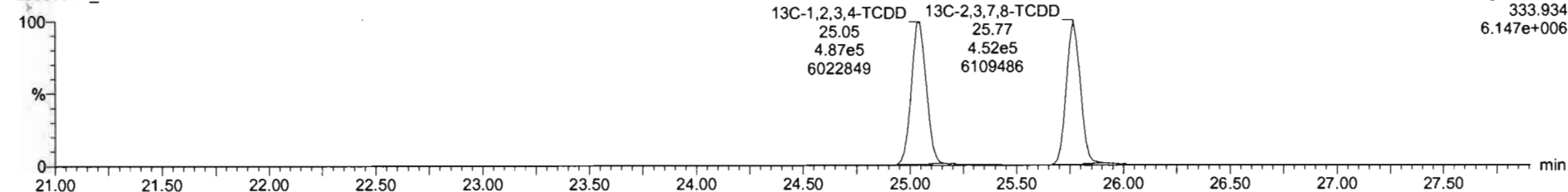


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200318R1_4



200318R1_4



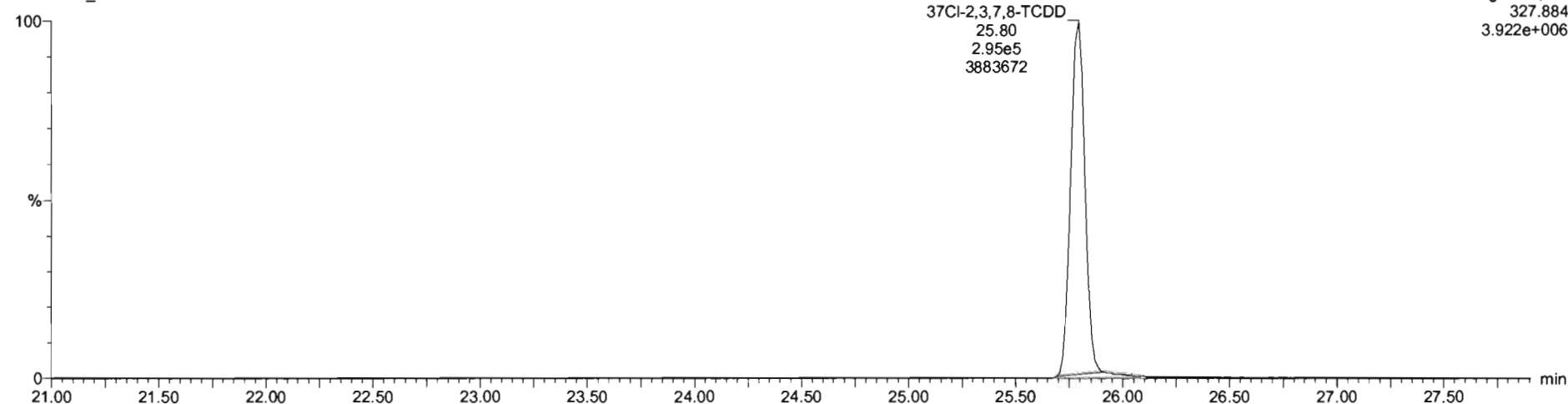
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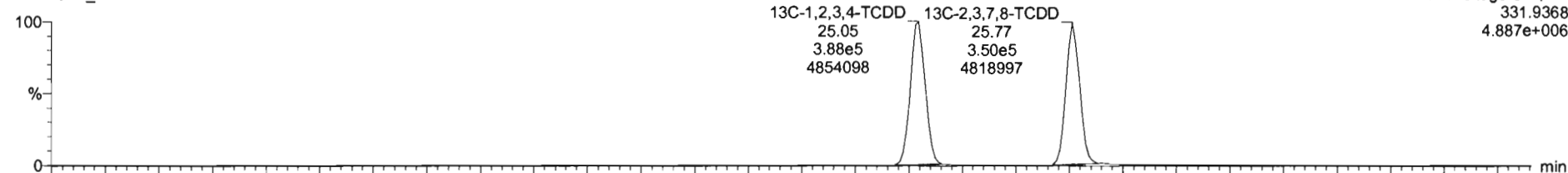
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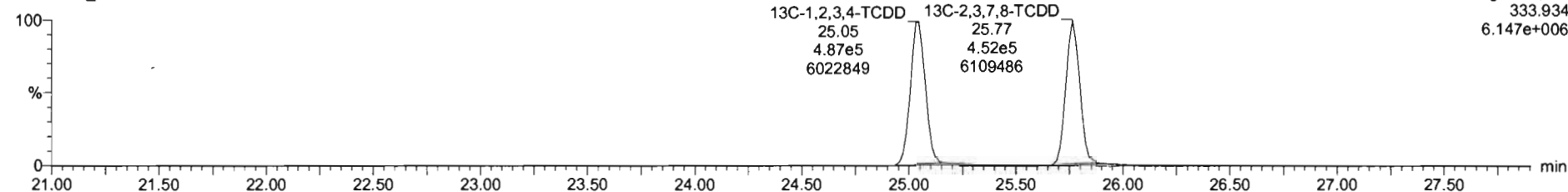


13C-1,2,3,4-TCDD

200318R1_4



200318R1_4



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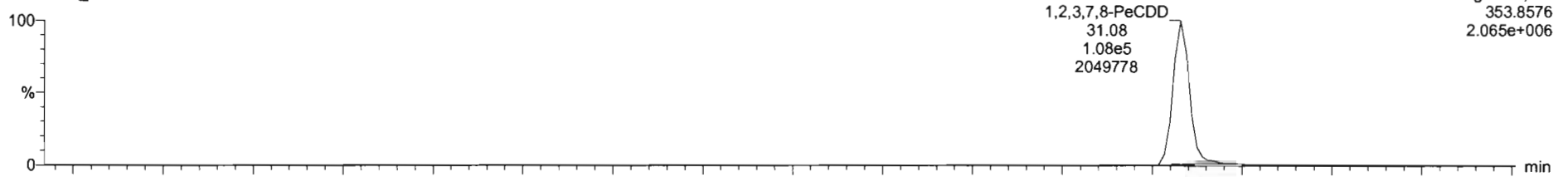
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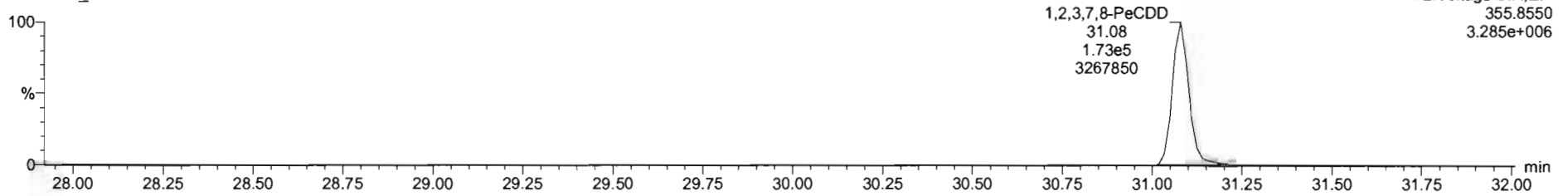
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1,2,3,7,8-PeCDD

200318R1_4

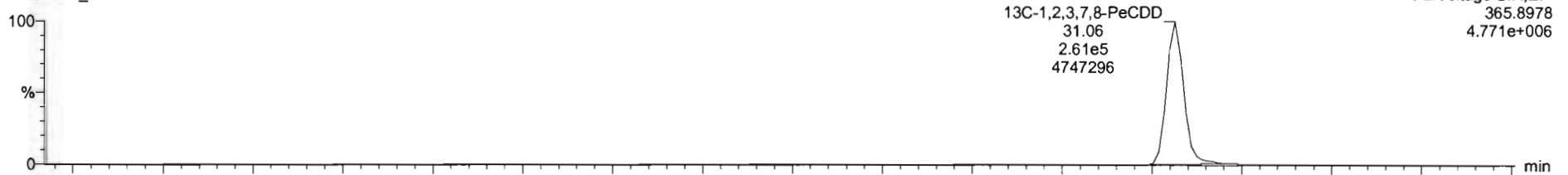


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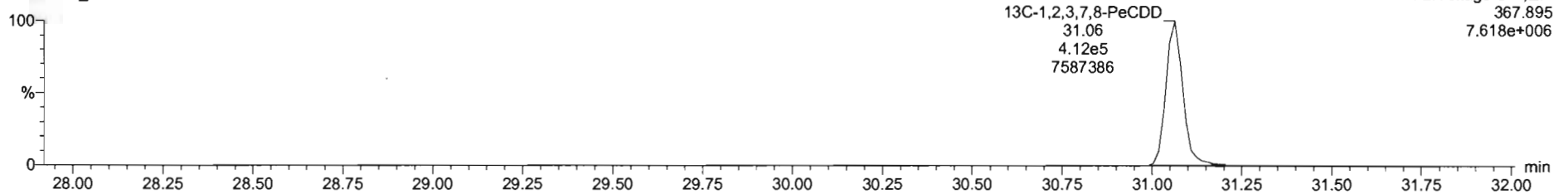


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200318R1_4



200318R1_4



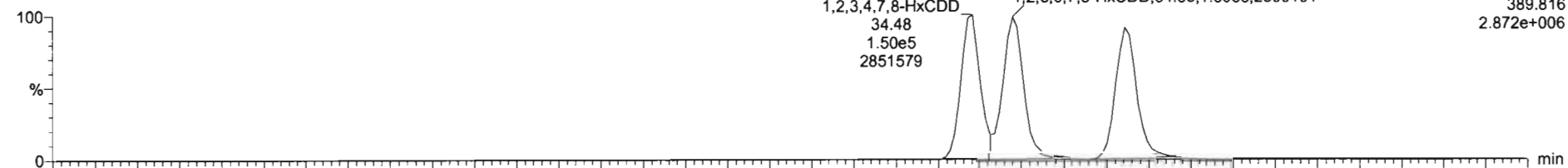
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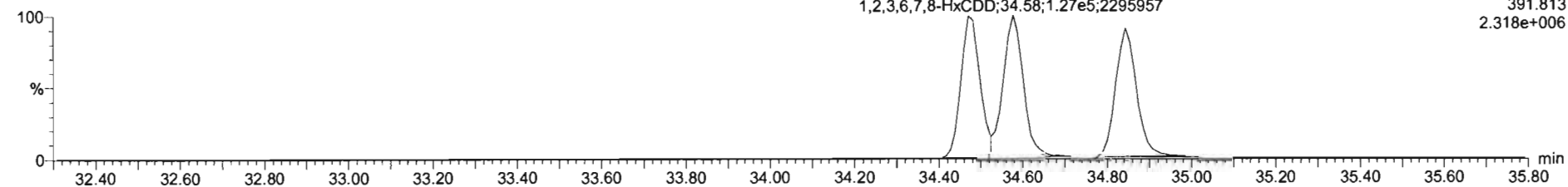
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1,2,3,4,7,8-HxCDD

200318R1_4

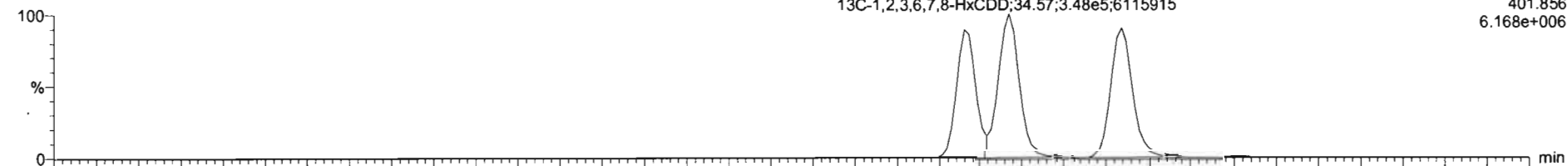


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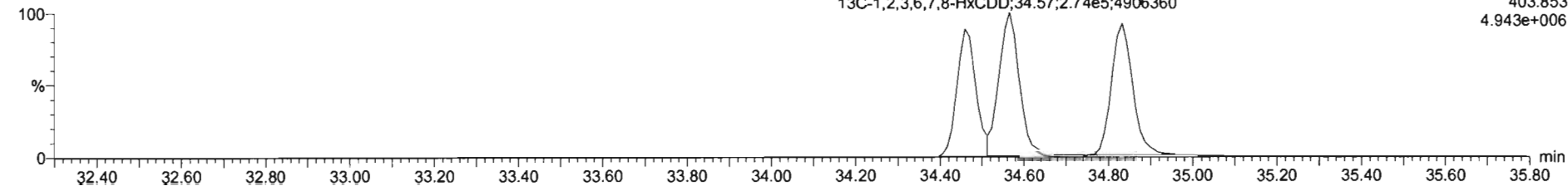


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200318R1_4



200318R1_4



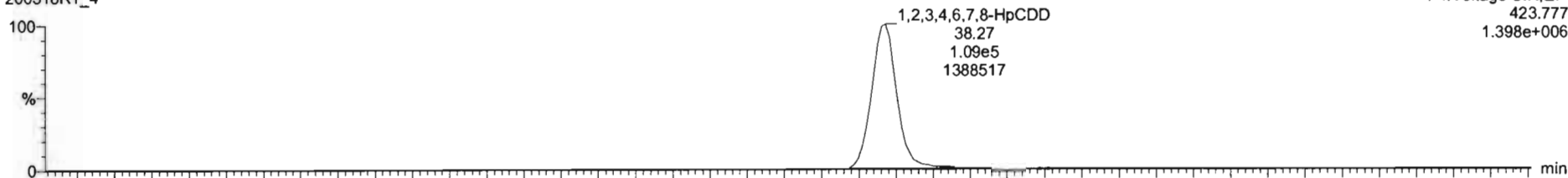
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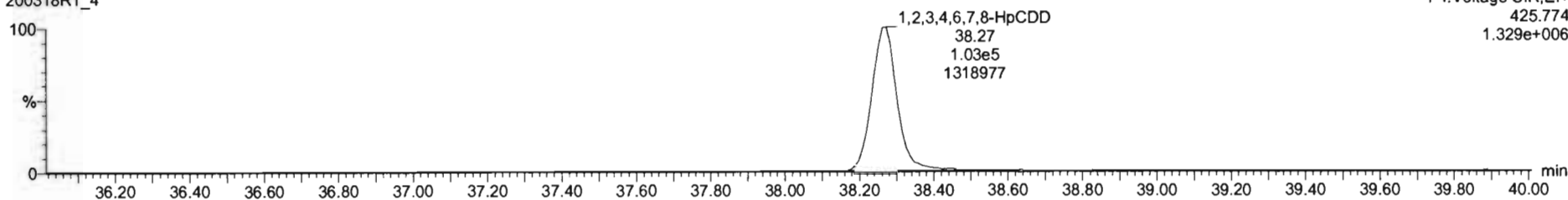
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1,2,3,4,6,7,8-HpCDD

200318R1_4

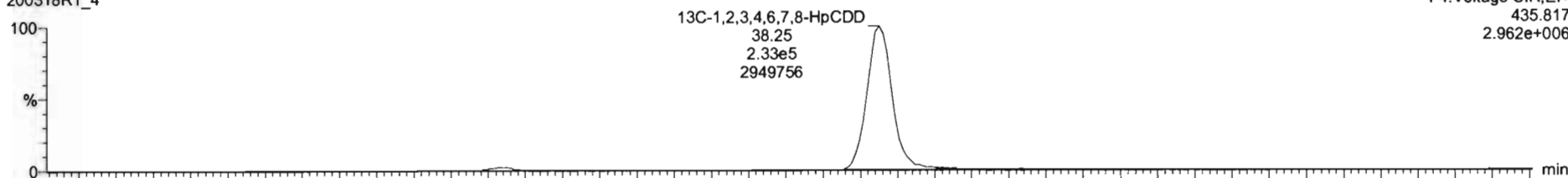


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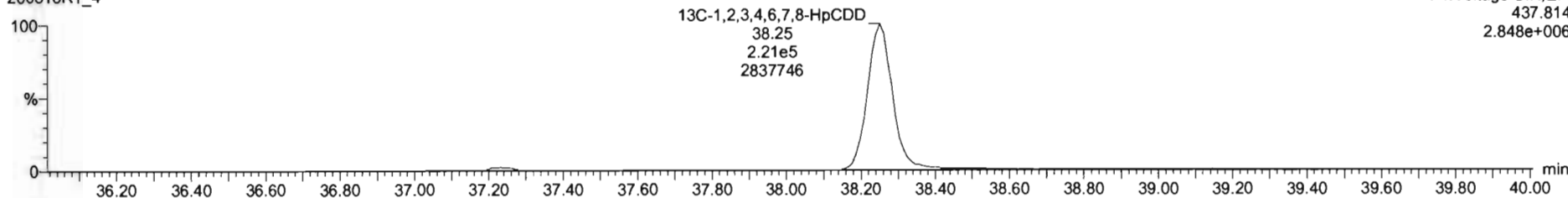


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200318R1_4



200318R1_4



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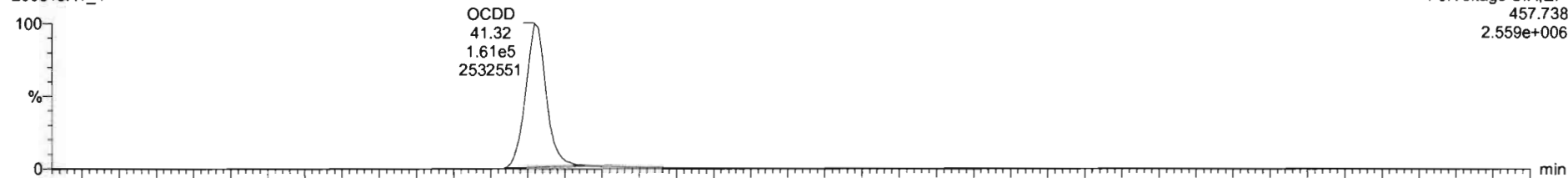
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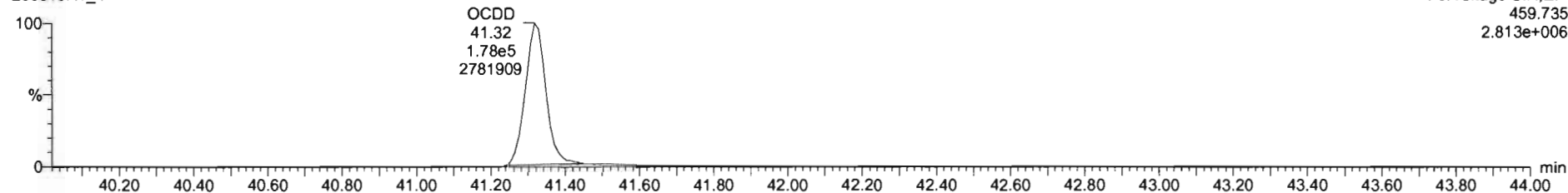
OCDD

200318R1_4



F5:Voltage SIR,EI+
457.738
2.559e+006

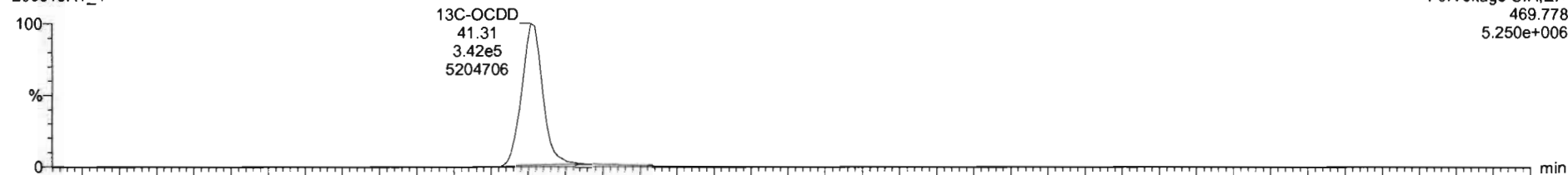
200318R1_4



F5:Voltage SIR,EI+
459.735
2.813e+006

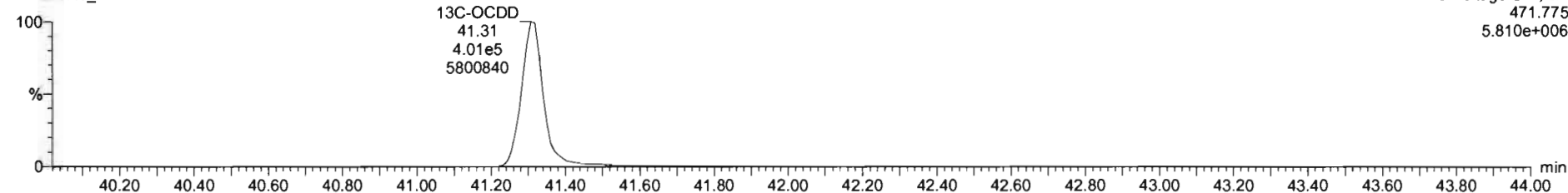
13C-OCDD

200318R1_4



F5:Voltage SIR,EI+
469.778
5.250e+006

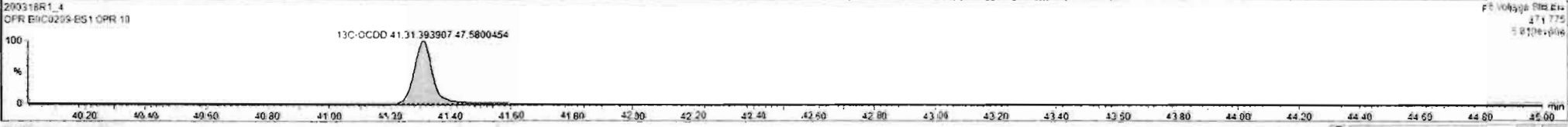
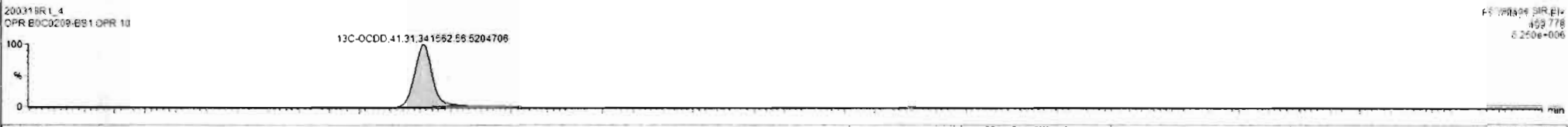
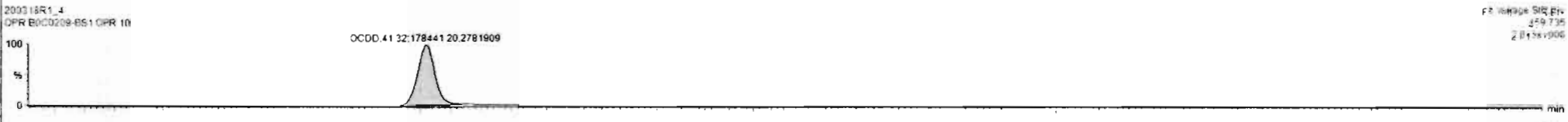
200318R1_4



F5:Voltage SIR,EI+
471.775
5.810e+006

200318R1_4 - B0C0209-BS1 OPR 10 - OPR

Name	Resp	RA	nly	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.77e4	0.75	NO	0.9835	10.000	25.80	1.001	17.2		0.0925	17.2
2 1,2,3,7,8-PeCDD	2.81e5	0.82	NO	0.9212	10.000	31.02	1.000	90.7		0.161	90.7
3 1,2,3,4,7,8-HxCDD	2.71e5	1.25	NO	1.1325	10.000	34.46	1.001	52.8		0.179	52.8
4 1,2,3,6,7,8-HxCDD	2.86e5	1.25	NO	0.9844	10.000	34.58	1.000	93.4		0.183	93.4
5 1,2,3,7,8,9-HxCDD	2.68e5	1.26	NO	0.9674	10.000	34.84	1.000	94.7		0.206	94.7
6 1,2,3,4,6,7,8-HpCDD	2.12e5	1.06	NO	1.0061	10.000	36.27	1.001	92.7		0.344	92.7
7 OCDD	3.40e5	0.90	NO	1.0516	10.000	41.32	1.000	178		0.229	178
8 2,3,7,8-TCDF	8.72e4	0.77	NO	0.9154	10.000	24.79	1.001	18.0		0.0665	18.0
9 1,2,3,7,8-PeCDF	4.25e5	1.62	NO	0.9564	10.000	29.72	1.001	92.7		0.173	92.7
10 2,3,4,7,8-PeCDF	4.36e5	1.57	NO	1.6035	10.000	30.76	1.001	93.3		0.154	93.3
11 1,2,3,4,7,8-HxCDF	3.44e5	1.24	NO	1.0381	10.000	33.63	1.000	92.9		0.196	92.9
12 1,2,3,6,7,8-HxCDF	3.91e5	1.22	NO	1.0126	10.000	33.75	1.000	95.5		0.168	95.5
13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.0920	10.000	34.31	1.000	93.3		0.168	93.3
14 1,2,3,7,8,9-HxCDF	3.01e5	1.22	NO	1.0268	10.000	35.18	1.000	90.6		0.267	90.6
15 1,2,3,4,6,7,8-HpCDF	2.74e5	1.01	NO	1.0483	10.000	36.86	1.000	89.8		0.242	89.8
16 1,2,3,4,7,8,9-HpCDF	2.17e5	1.02	NO	1.2099	10.000	38.92	1.001	91.0		0.326	91.0
17 OCDF	4.04e5	0.89	NO	0.9468	10.000	41.50	1.000	186		0.216	186



Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

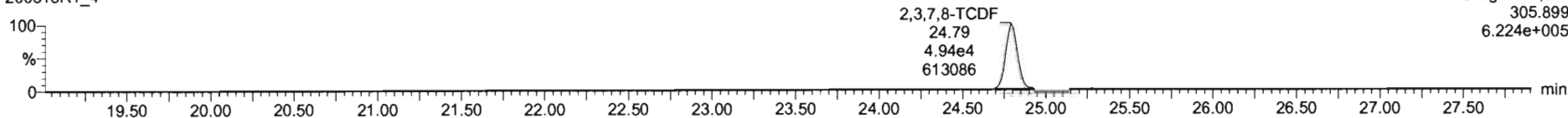
2,3,7,8-TCDF

200318R1_4



F1:Voltage SIR,EI+
303.9016
4.895e+005

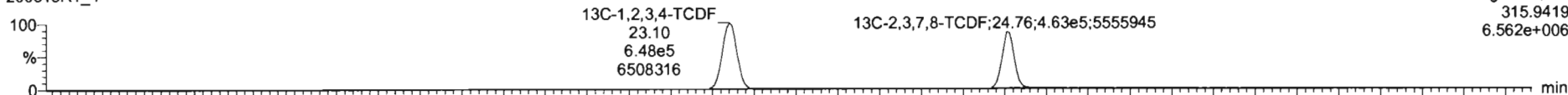
200318R1_4



F1:Voltage SIR,EI+
305.899
6.224e+005

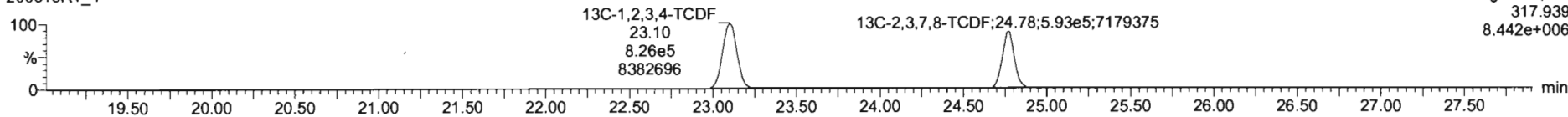
13C-2,3,7,8-TCDF

200318R1_4



F1:Voltage SIR,EI+
315.9419
6.562e+006

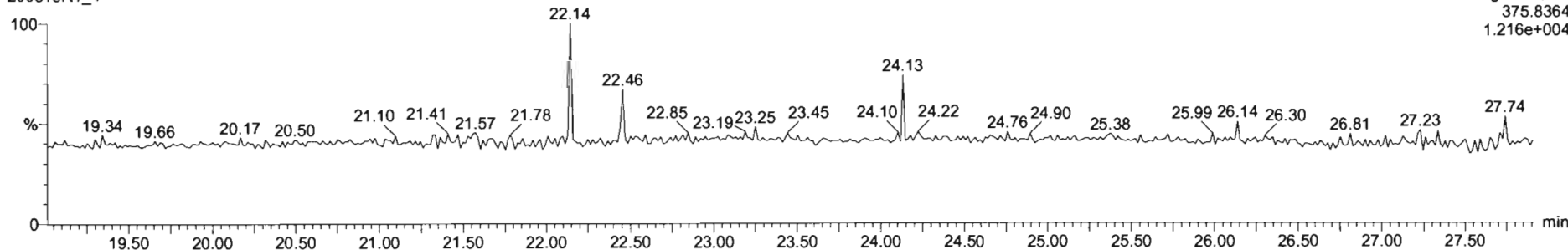
200318R1_4



F1:Voltage SIR,EI+
317.939
8.442e+006

DPE1

200318R1_4



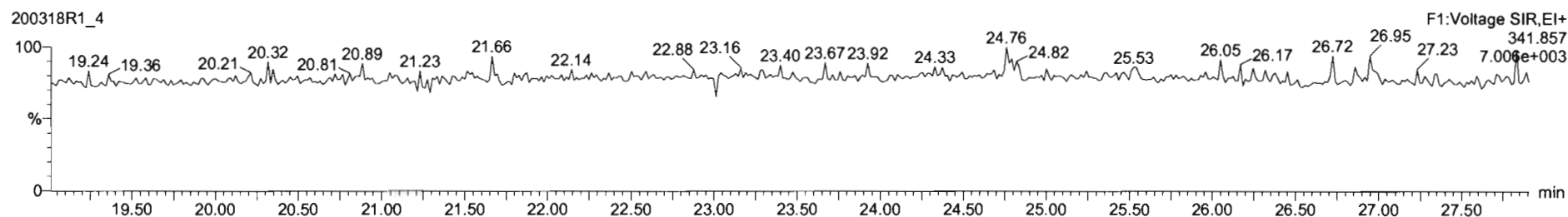
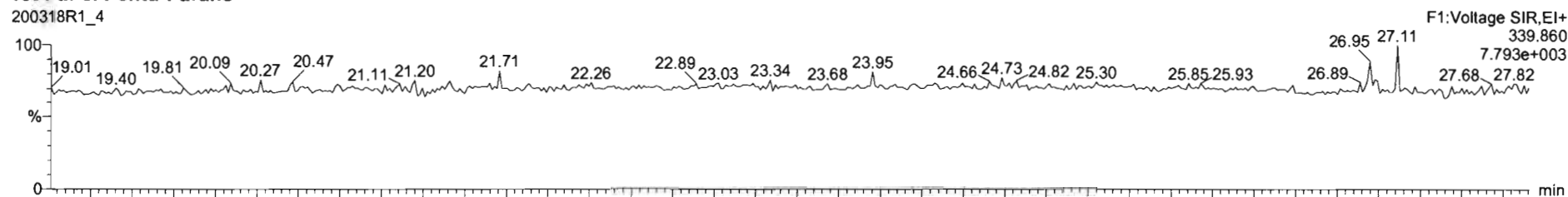
F1:Voltage SIR,EI+
375.8364
1.216e+004

Dataset: Untitled

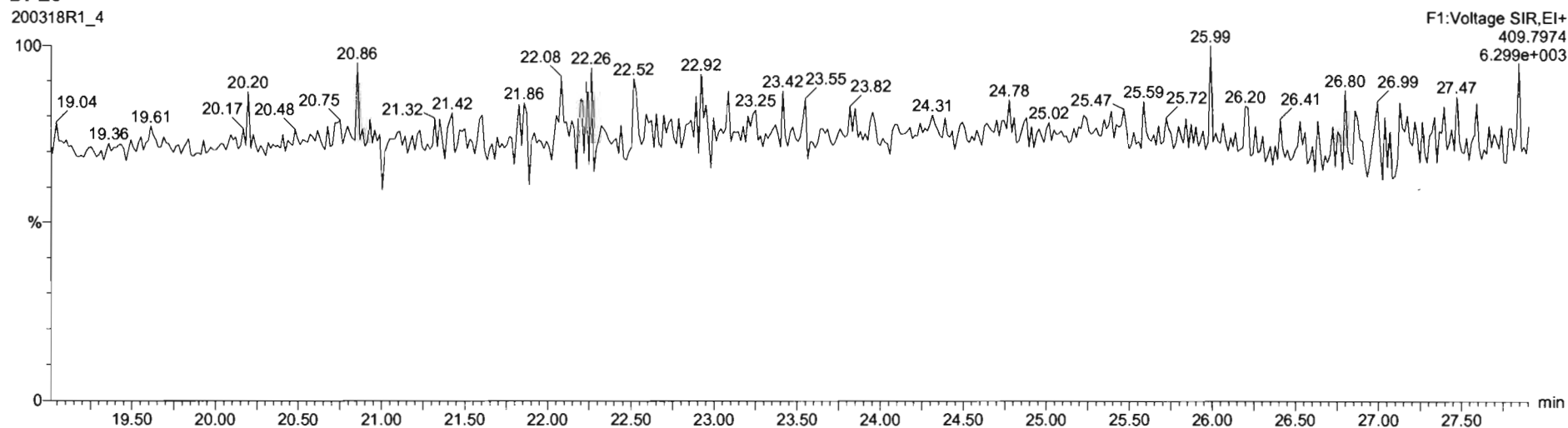
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans



DPE6

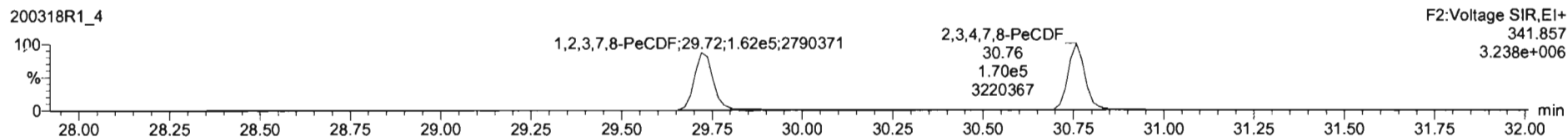
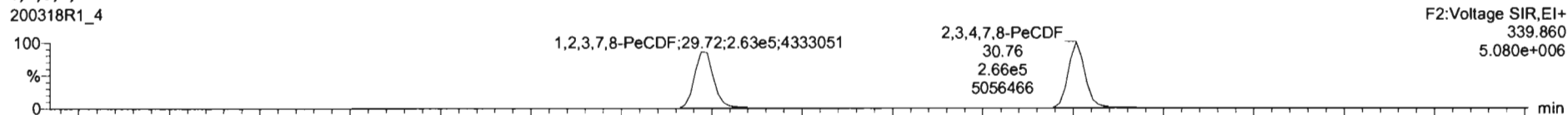


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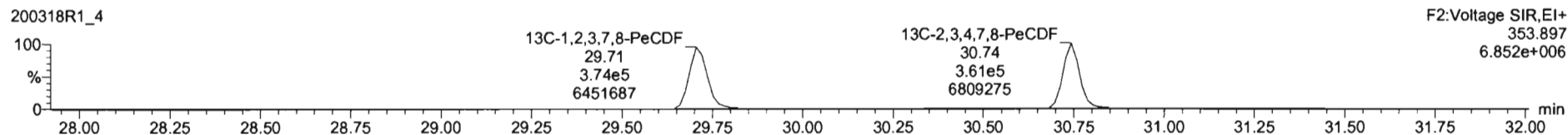
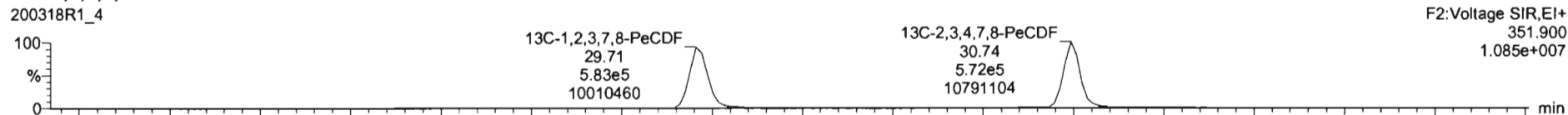
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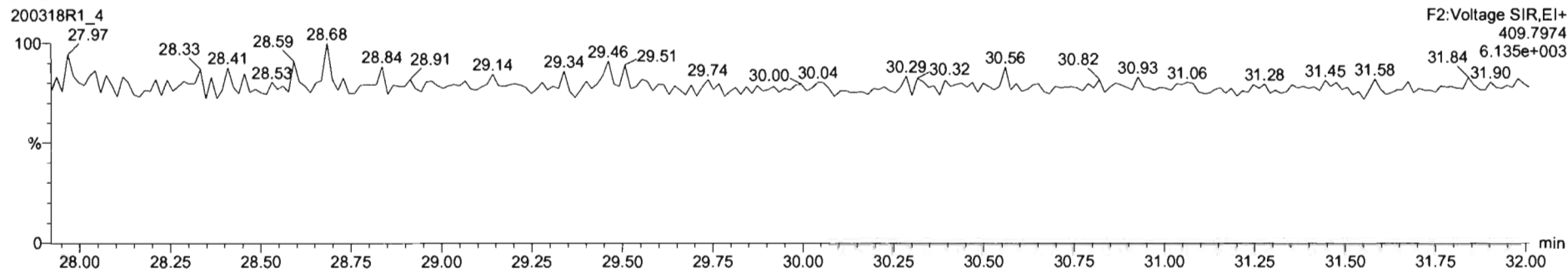
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



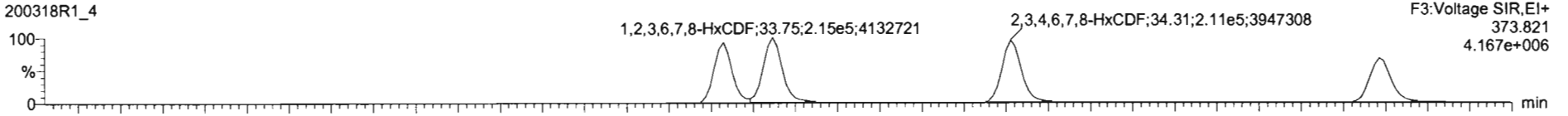
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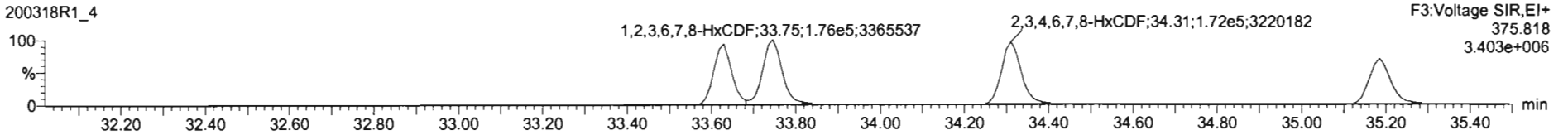
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1,2,3,4,7,8-HxCDF

200318R1_4

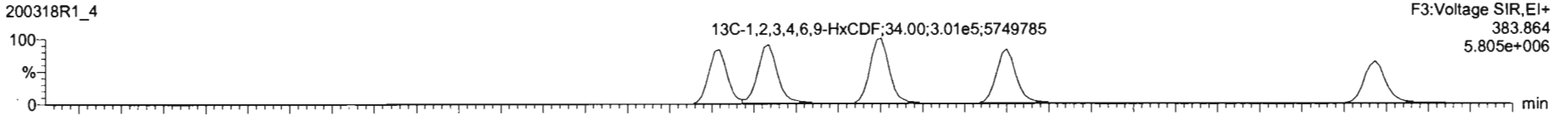


200318R1_4

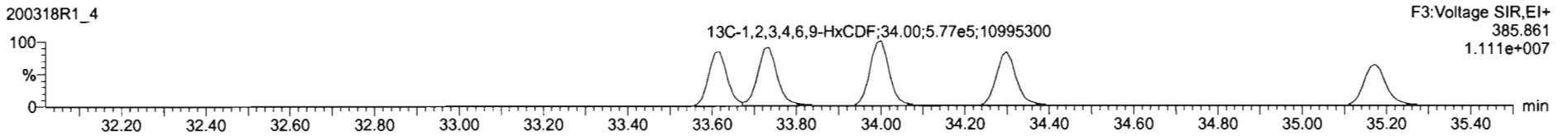


13C-1,2,3,4,7,8-HxCDF

200318R1_4

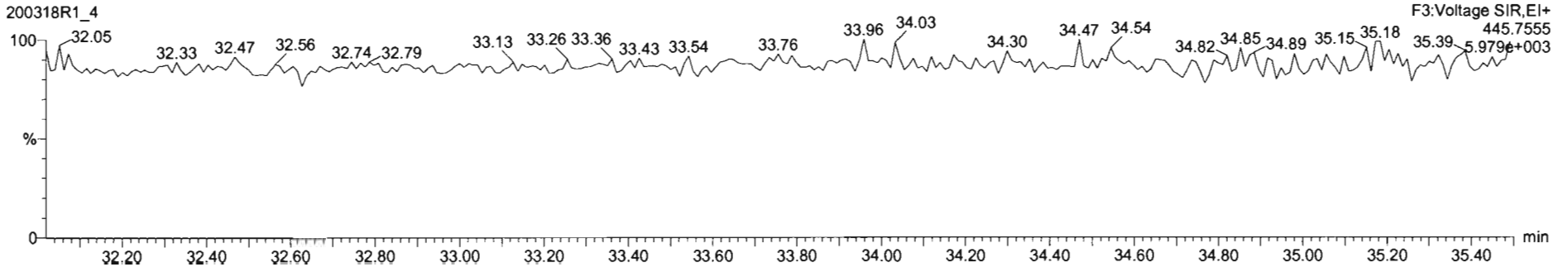


200318R1_4



DPE3

200318R1_4



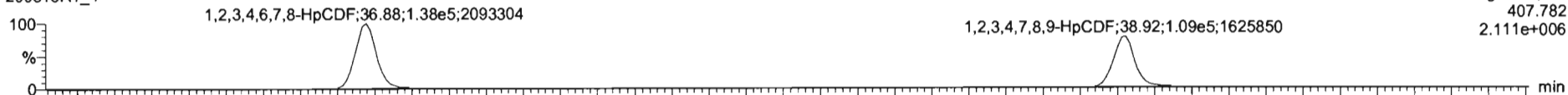
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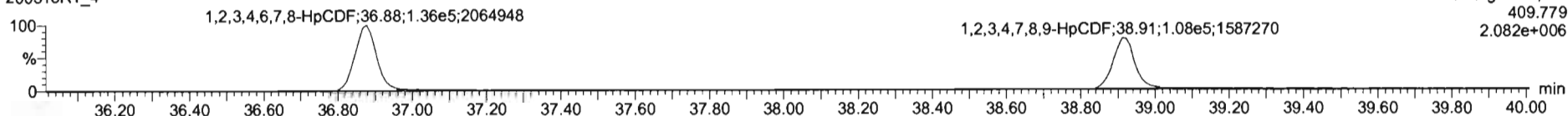
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1,2,3,4,6,7,8-HpCDF

200318R1_4



200318R1_4

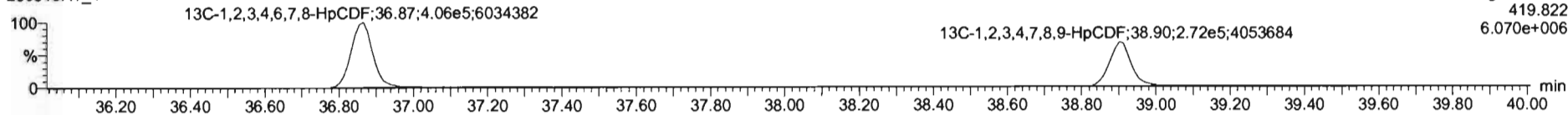


13C-1,2,3,4,6,7,8-HpCDF

200318R1_4

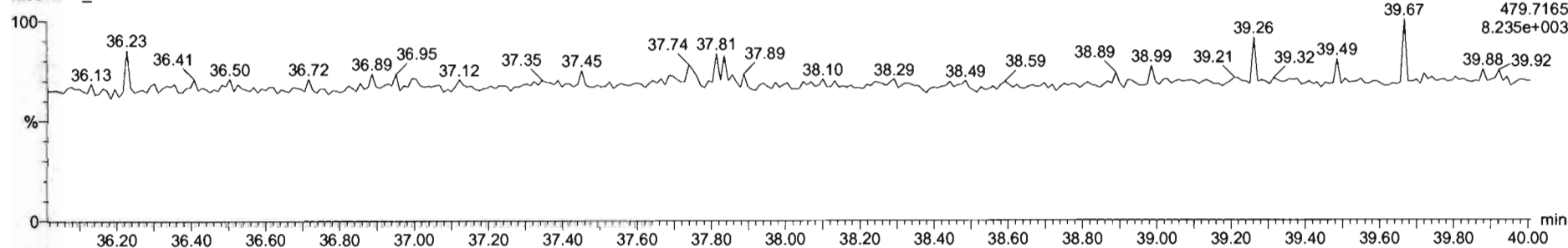


200318R1_4



DPE4

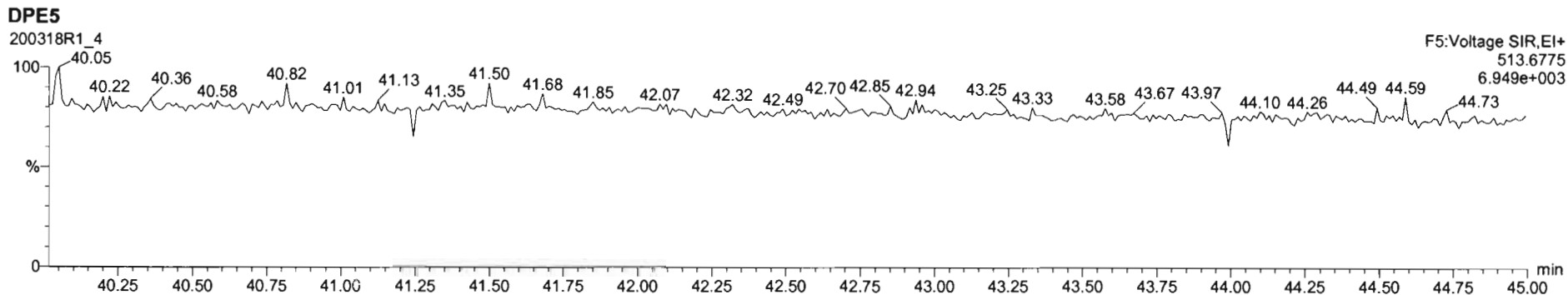
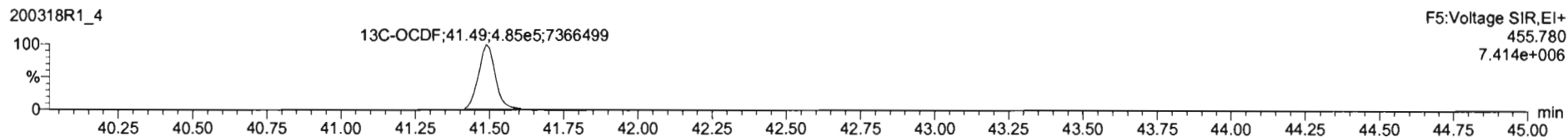
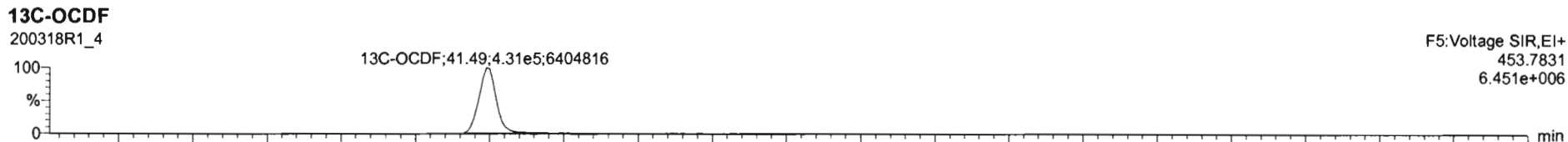
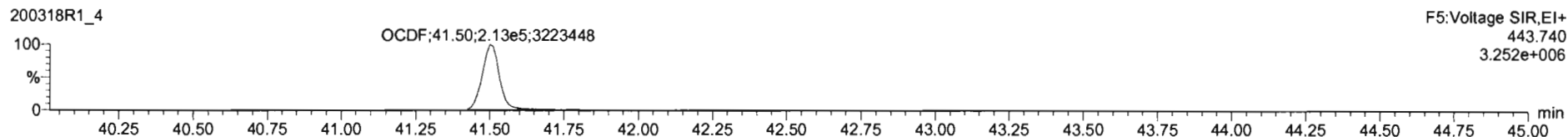
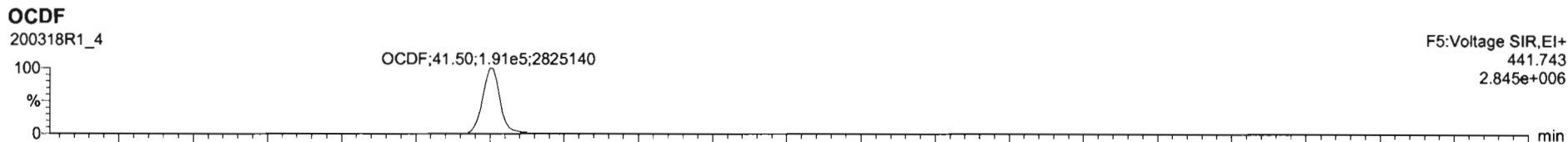
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Dataset: Untitled

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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

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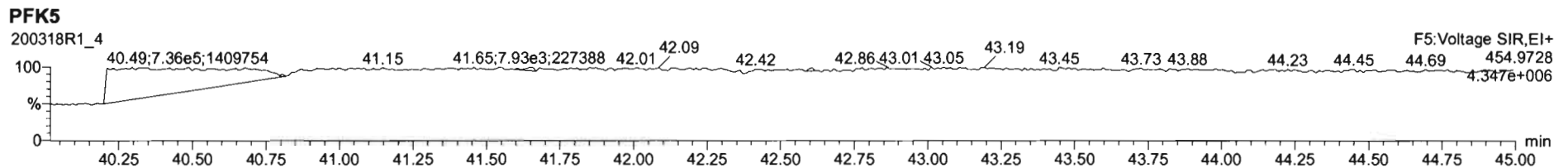
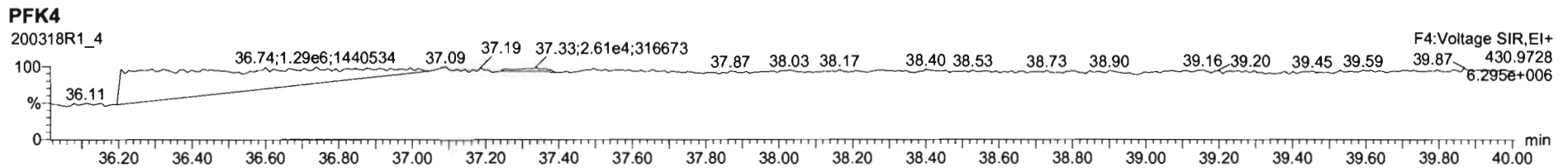
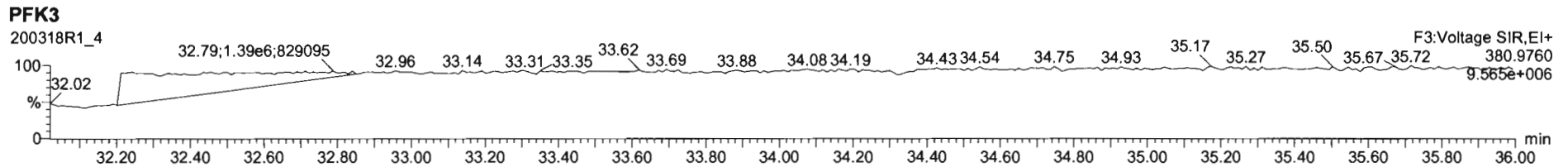
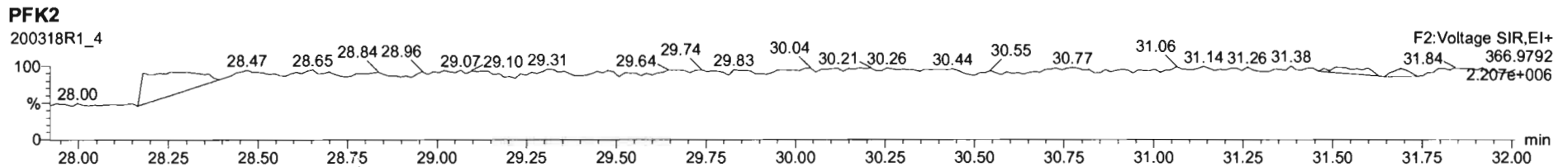
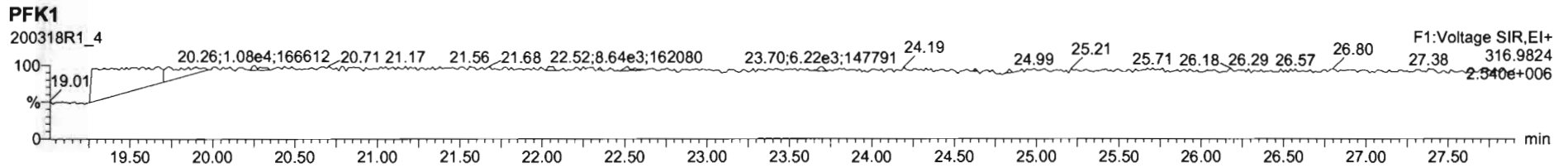


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Dataset: U:\VG12.PRO\Results\200203R1\200203R1-15.qld

Last Altered: Saturday, February 08, 2020 11:42:23 Pacific Standard Time

Printed: Saturday, February 08, 2020 11:42:57 Pacific Standard Time

Hc 2.8.2020

C103/8/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	6.02e5	1.01	NO	0.923	10.057	37.939	37.94	1.000	1.000	22433		57.0	22400
2	7 OCDD	1.61e6	0.88	NO	0.975	10.057	40.921	40.93	1.000	1.000	137020		72.3	137000
3	23 13C-1,2,3,4,6,7,8-HpCDD	5.78e3	1.16	NO	0.747	10.057	37.967	37.93	1.132	1.131	44.064	22.2	3.48	
4	24 13C-OCDD	4.81e3	0.82	NO	0.707	10.057	40.852	40.92	1.218	1.220	38.759	9.75	3.44	
5	38 13C-1,2,3,4,6,9-HxCDF	3.49e4	0.52	NO	1.00	10.057	33.520	33.54	1.000	1.000	198.86	100	3.66	

Dataset: Untitled

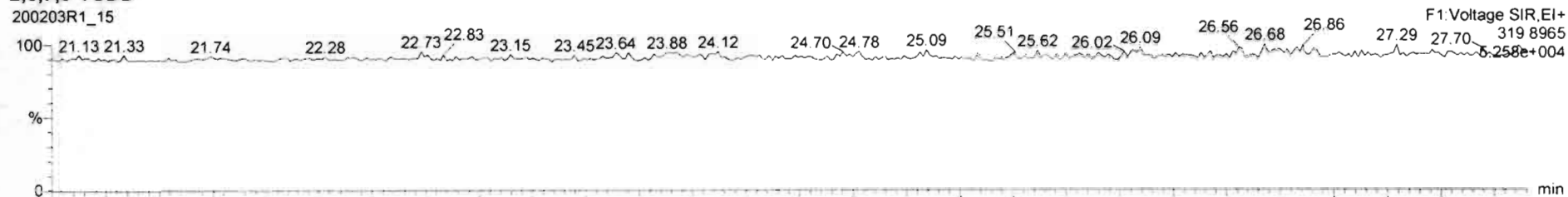
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

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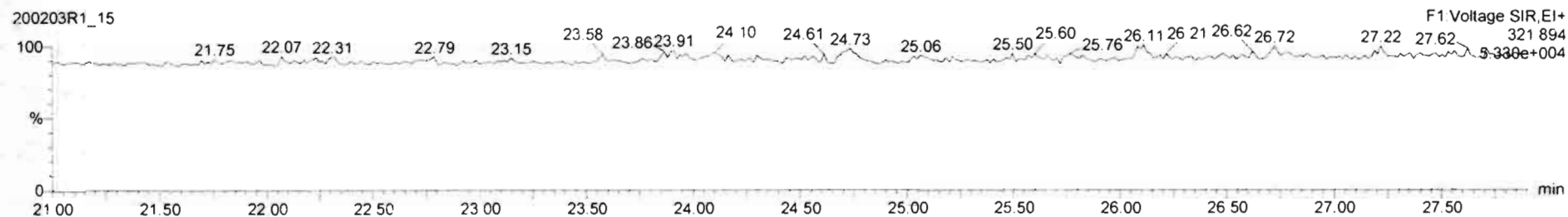
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

2,3,7,8-TCDD

200203R1_15

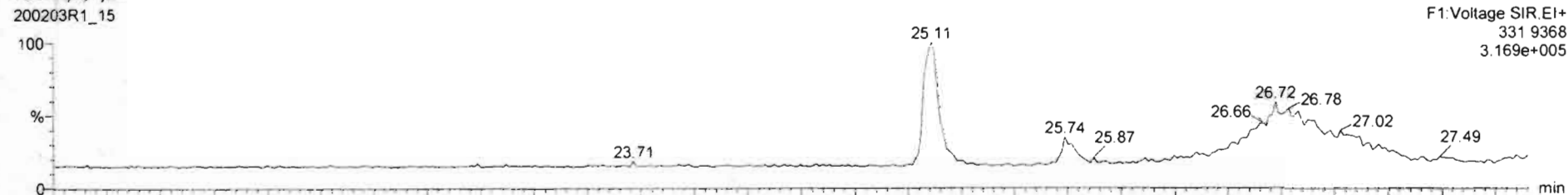


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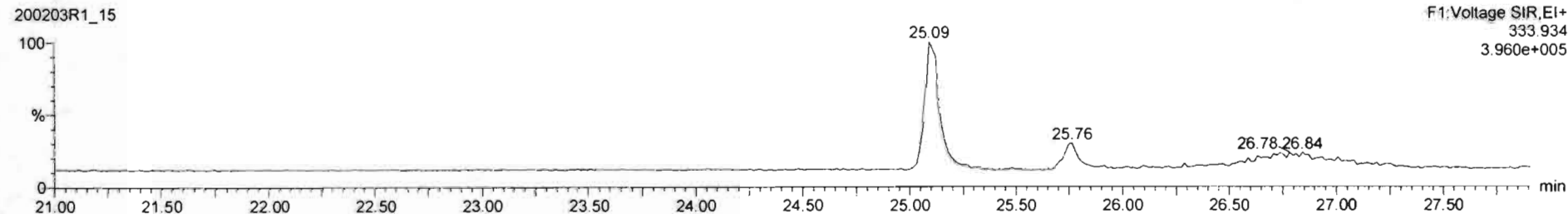


13C-2,3,7,8-TCDD

200203R1_15



200203R1_15



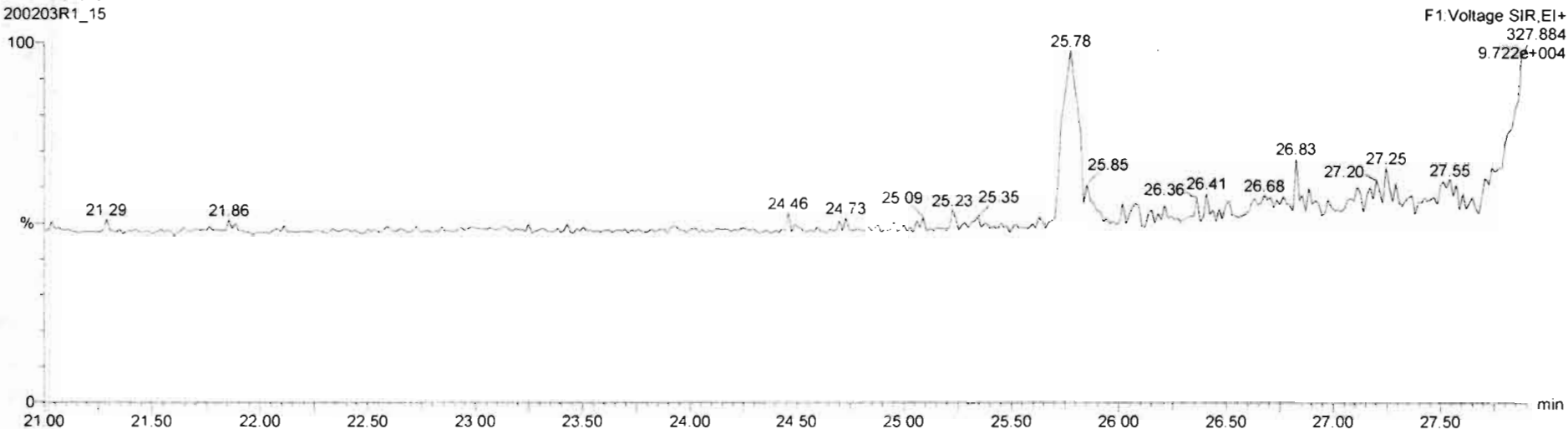
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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

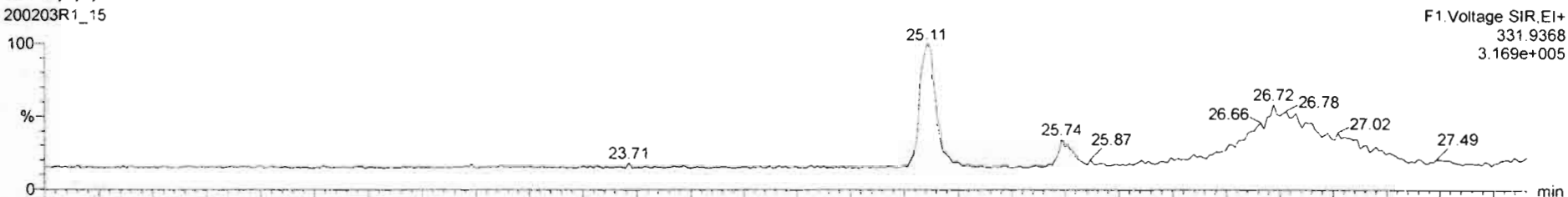
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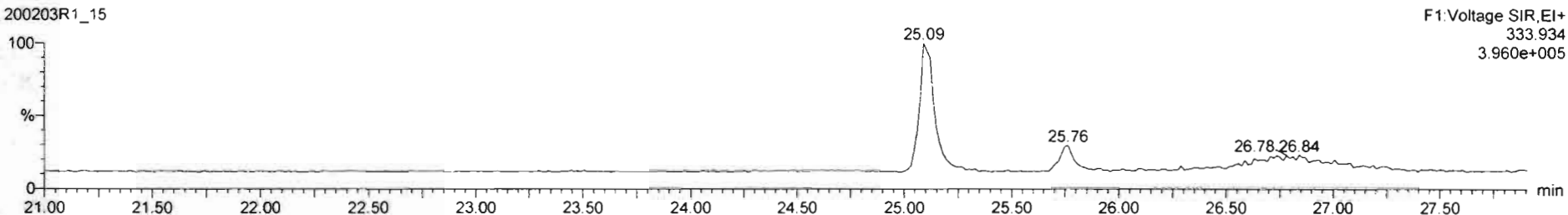


13C-1,2,3,4-TCDD

200203R1_15



200203R1_15



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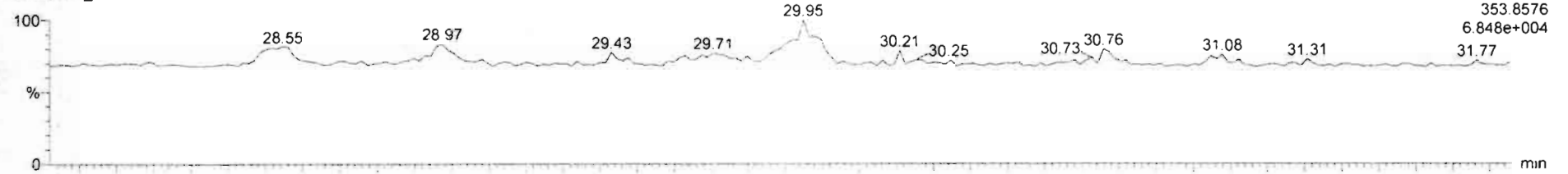
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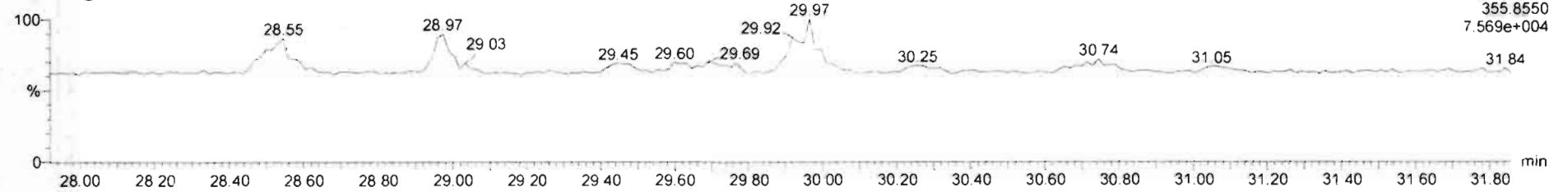
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1,2,3,7,8-PeCDD

200203R1_15

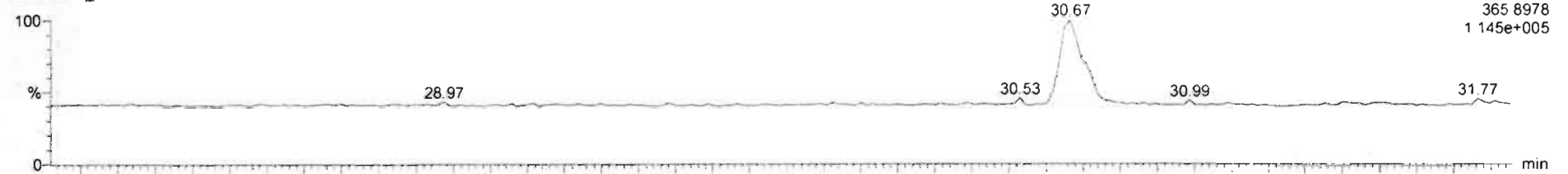


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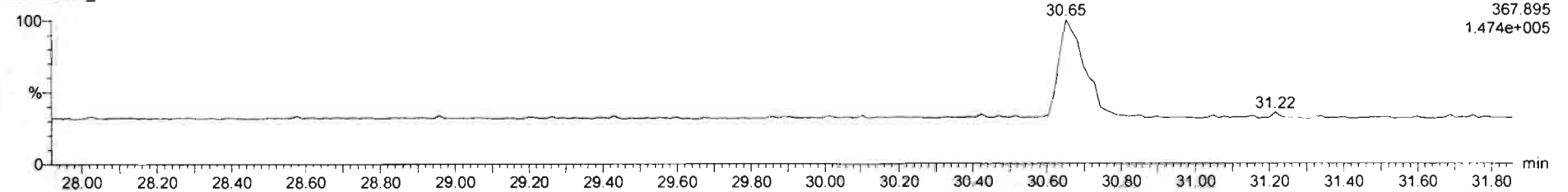


13C-1,2,3,7,8-PeCDD

200203R1_15



200203R1_15



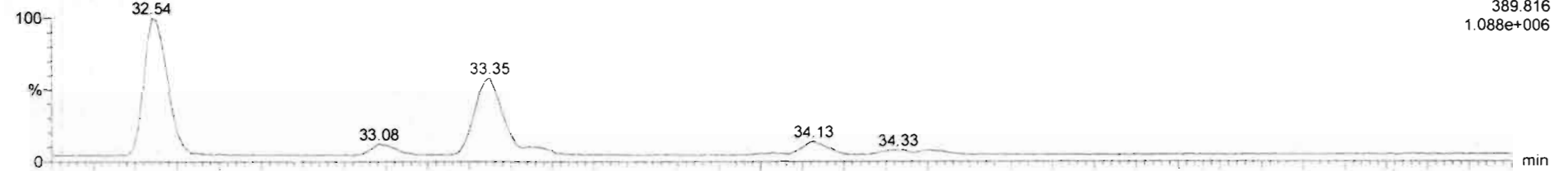
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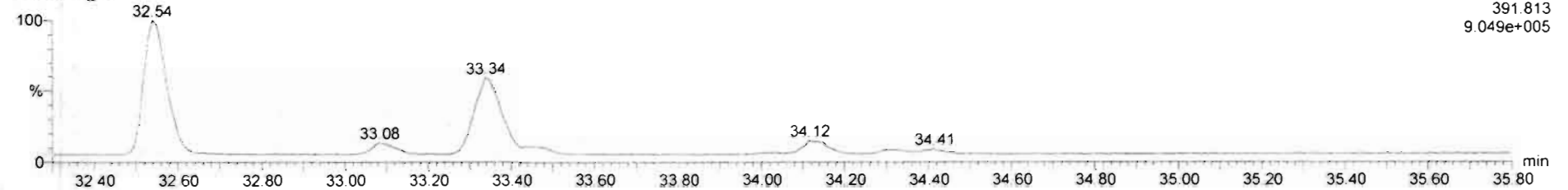
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1,2,3,4,7,8-HxCDD

200203R1_15

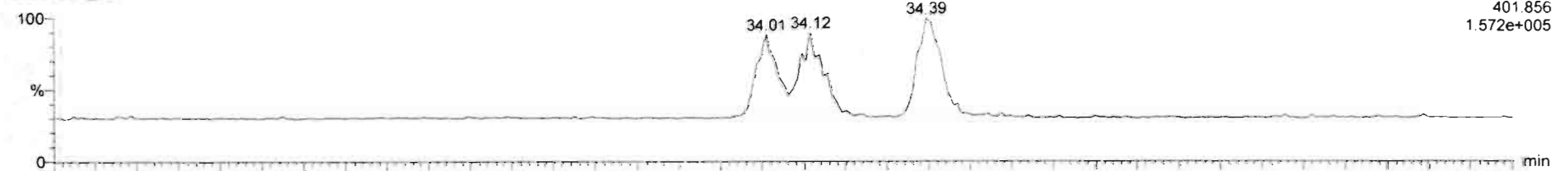


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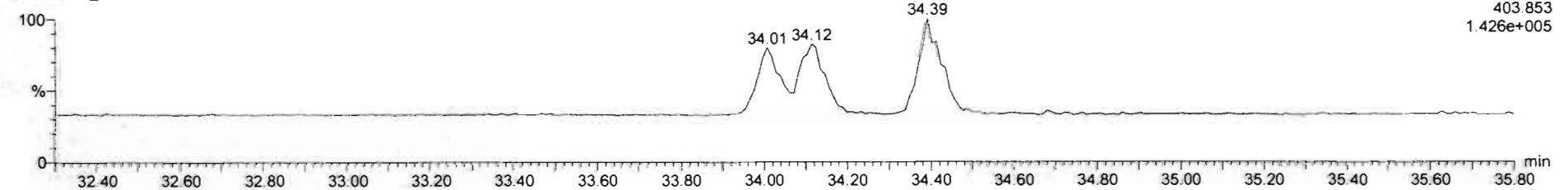


13C-1,2,3,4,7,8-HxCDD

200203R1_15



200203R1_15



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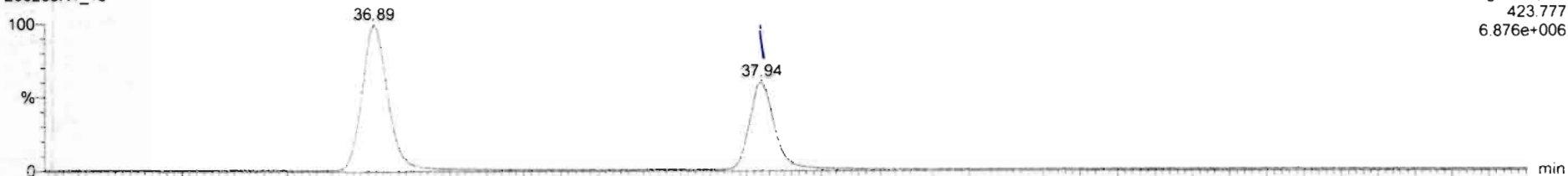
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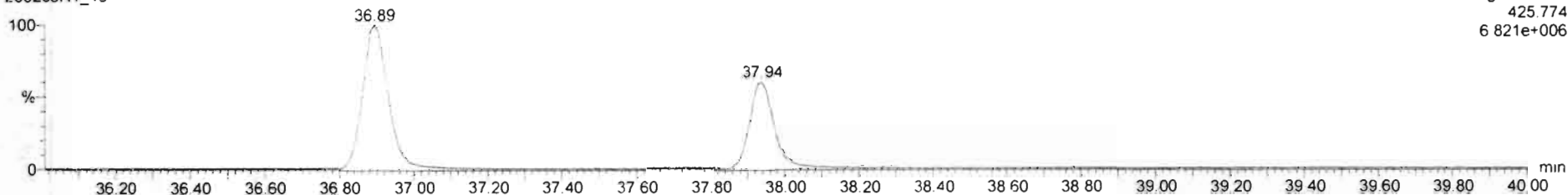
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1,2,3,4,6,7,8-HpCDD

200203R1_15

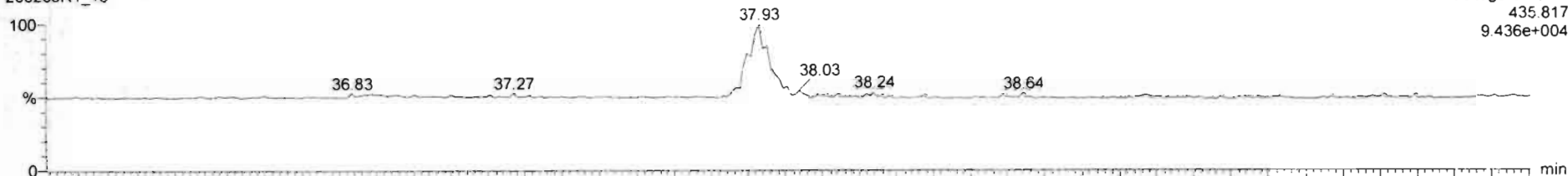


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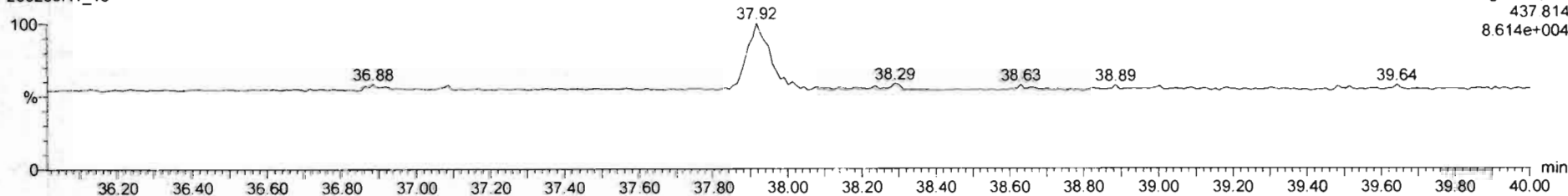


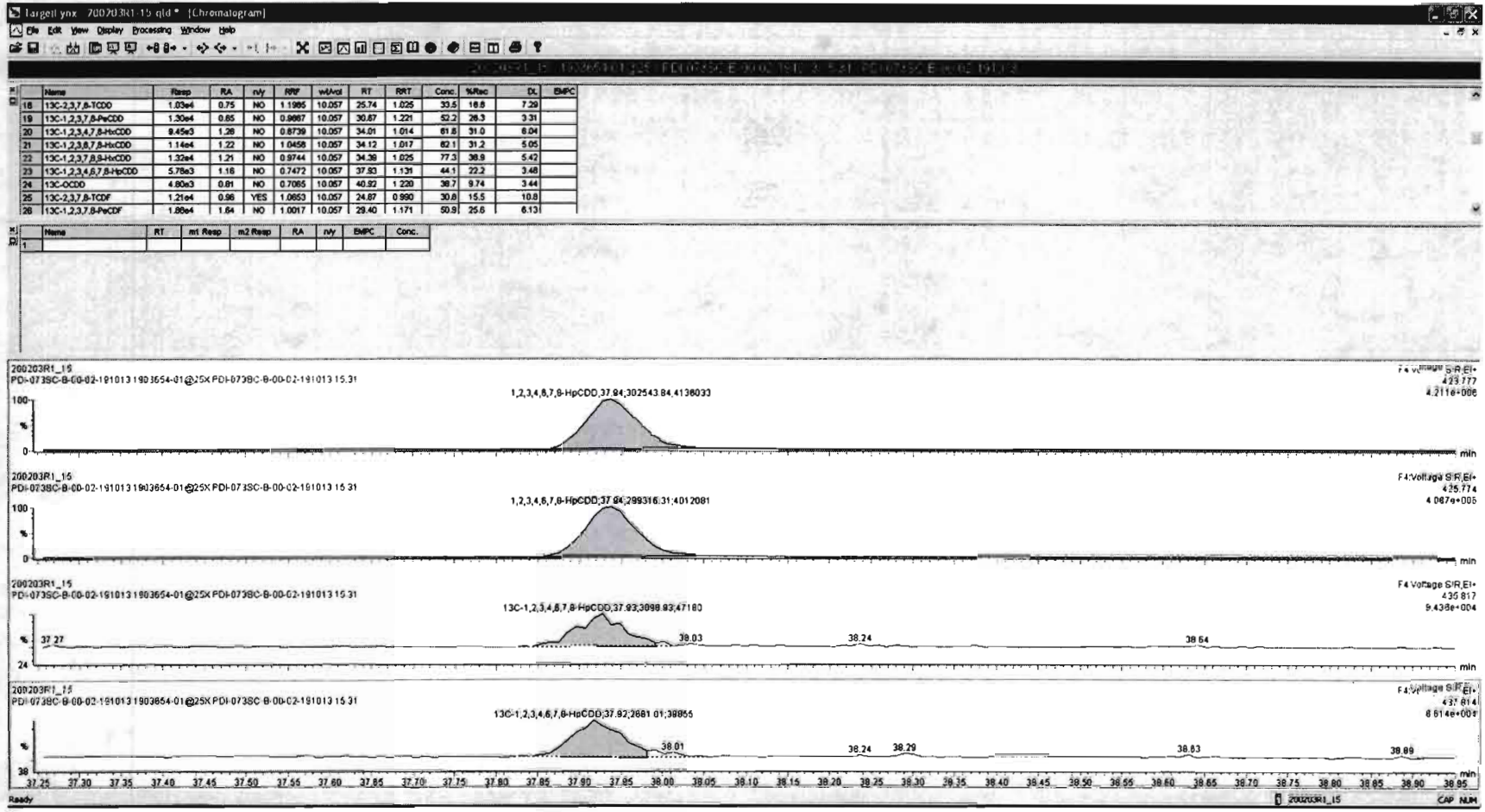
13C-1,2,3,4,6,7,8-HpCDD

200203R1_15



200203R1_15

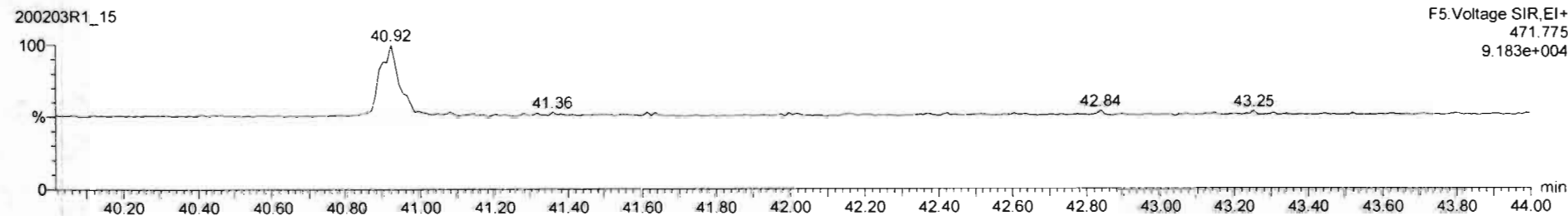
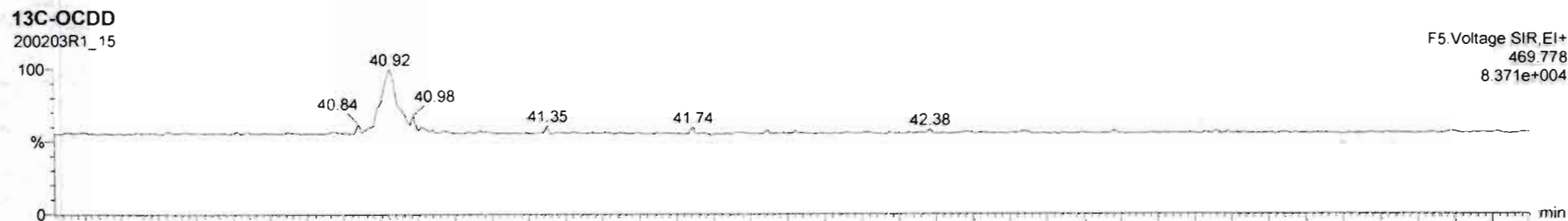
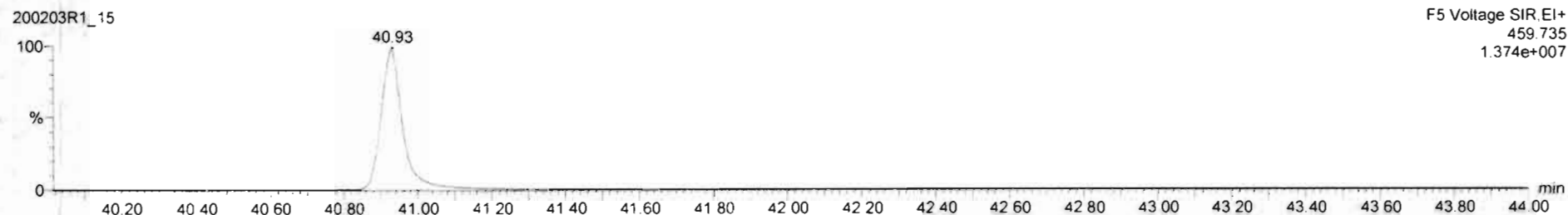


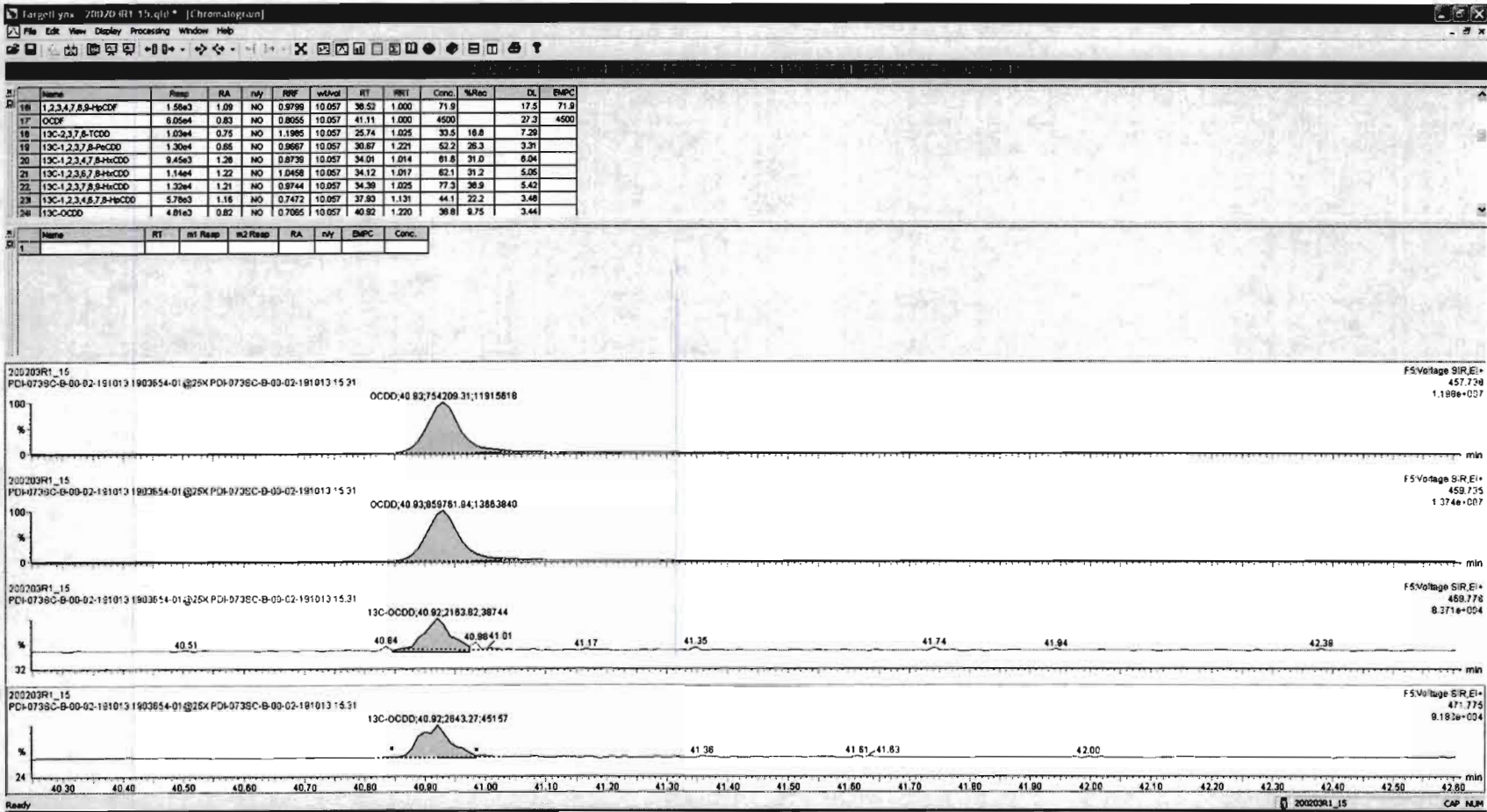


Dataset: Untitled

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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

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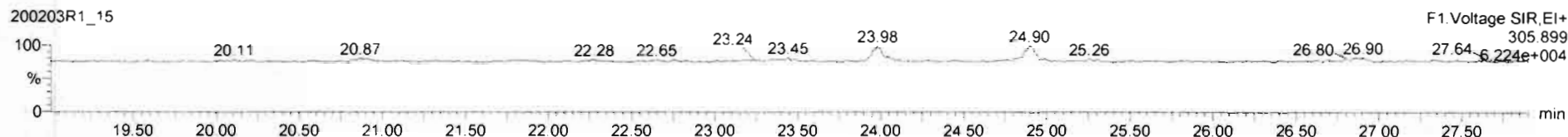
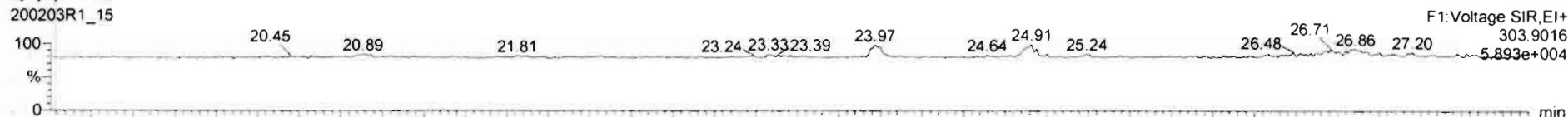


Dataset: Untitled

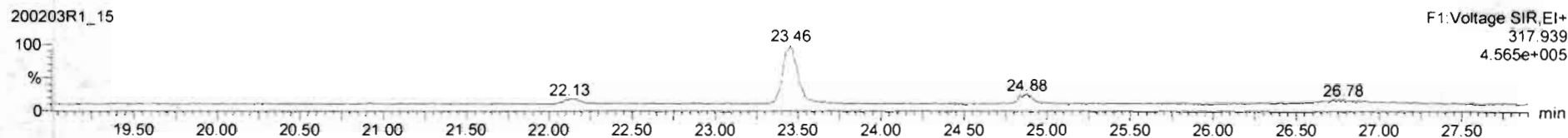
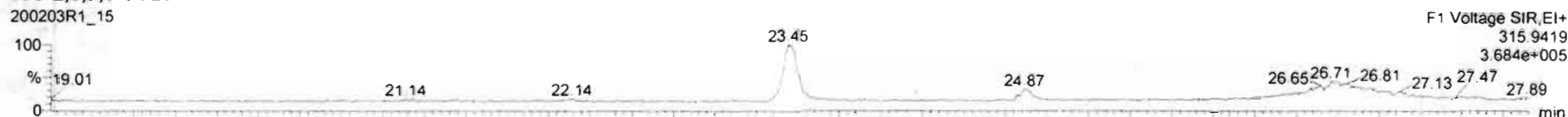
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

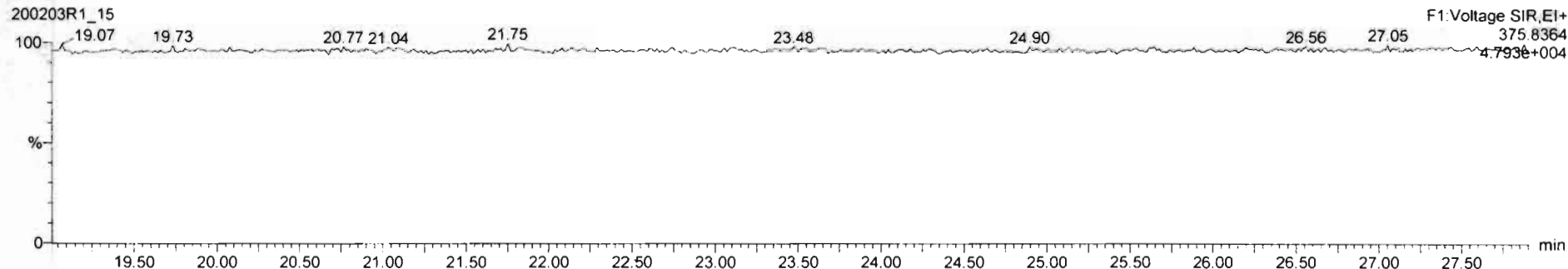
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



Dataset: Untitled

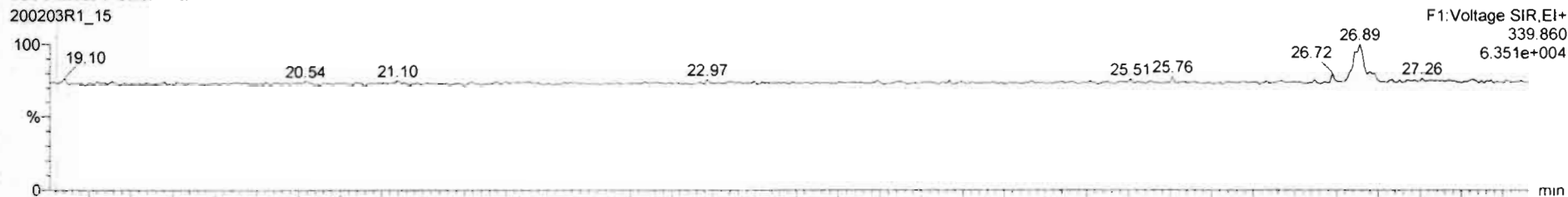
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

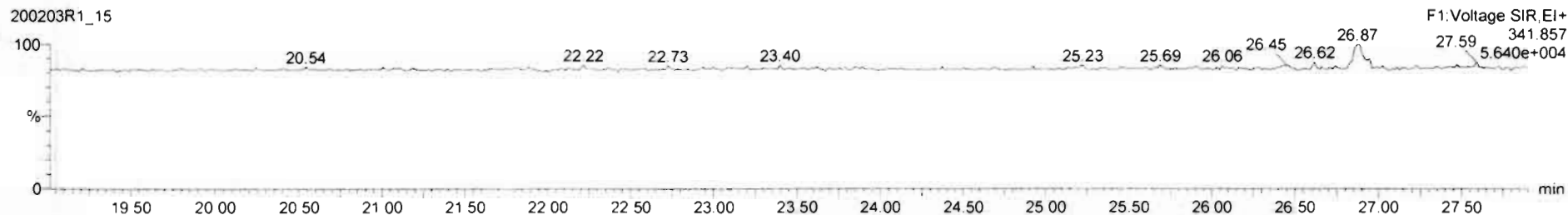
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

1st Func. Penta-Furans

200203R1_15

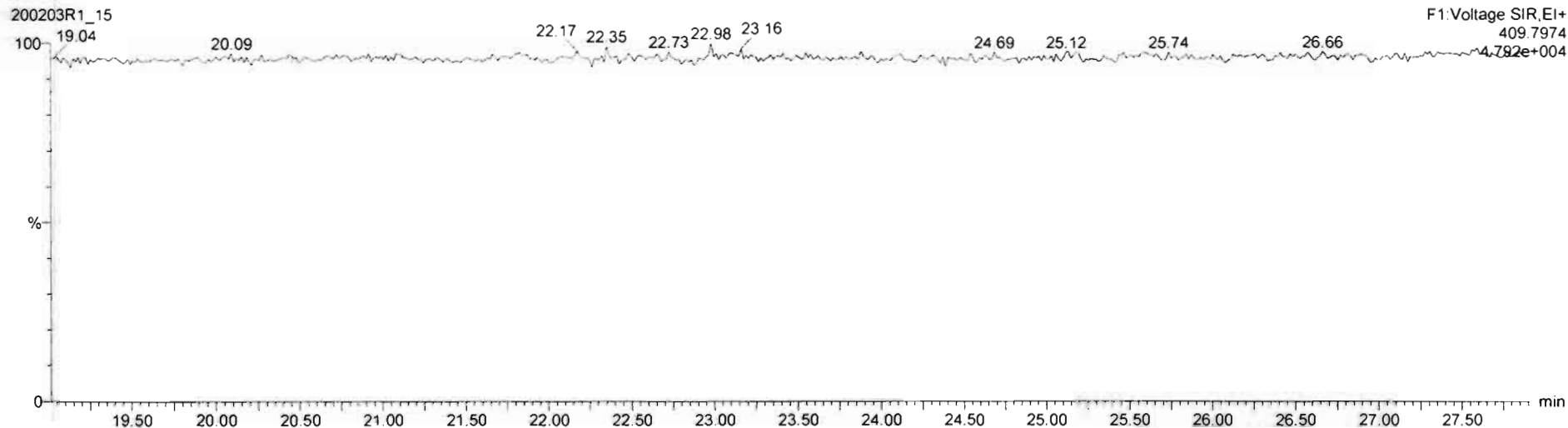


200203R1_15



DPE6

200203R1_15



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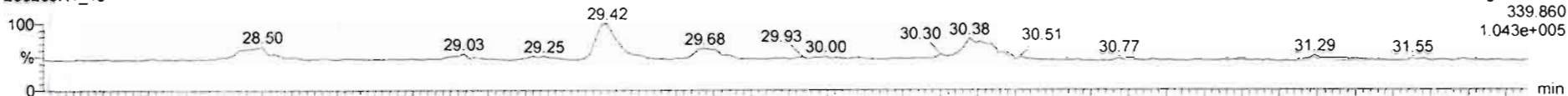
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

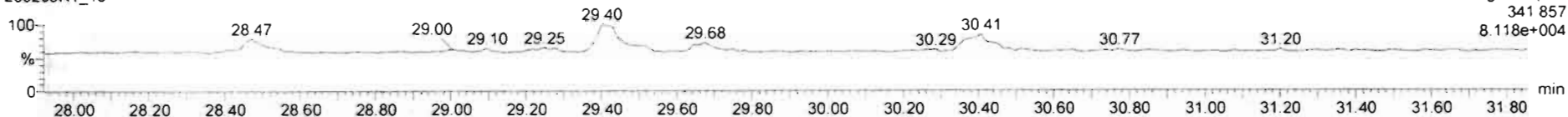
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

1,2,3,7,8-PeCDF

200203R1_15

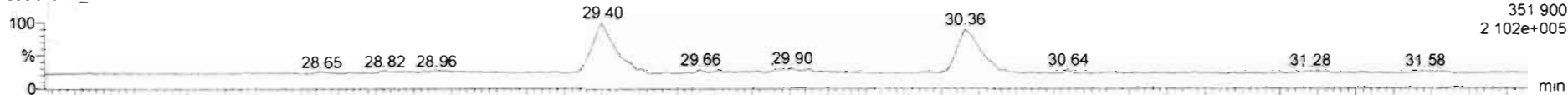


200203R1_15

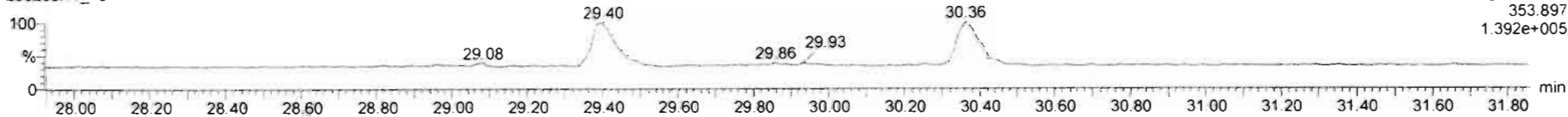


13C-1,2,3,7,8-PeCDF

200203R1_15

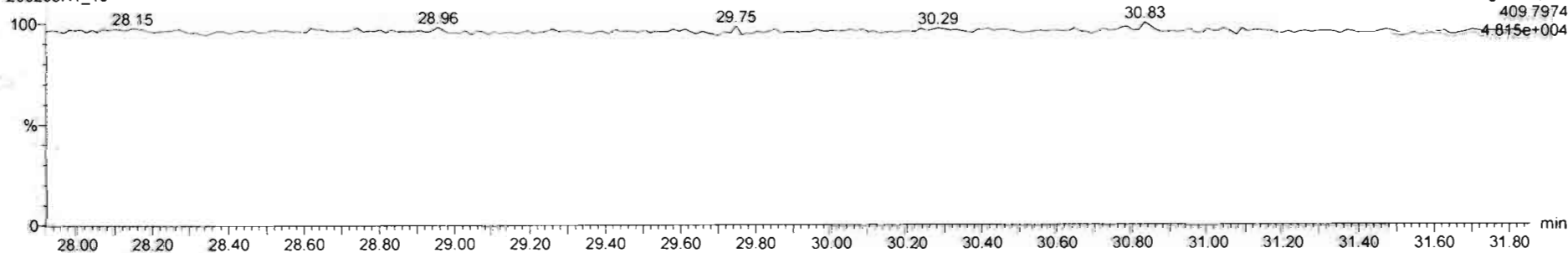


200203R1_15



DPE2

200203R1_15



Dataset: Untitled

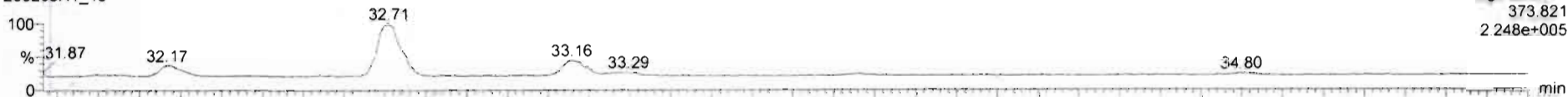
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

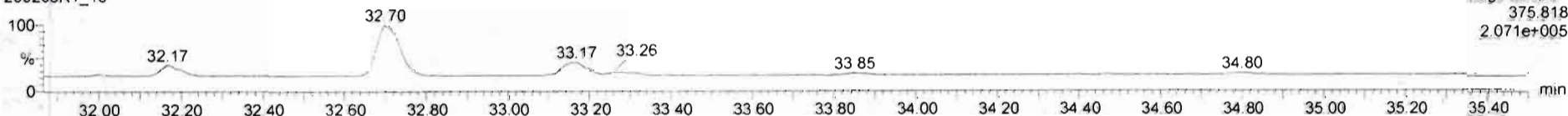
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

1,2,3,4,7,8-HxCDF

200203R1_15

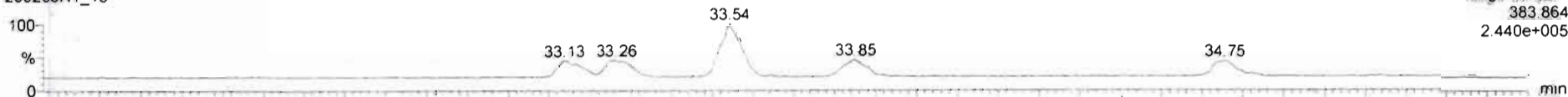


200203R1_15

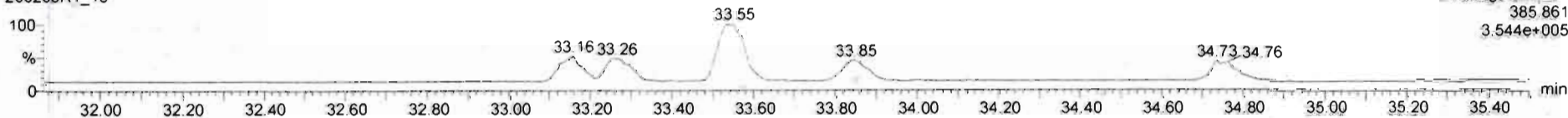


13C-1,2,3,4,7,8-HxCDF

200203R1_15

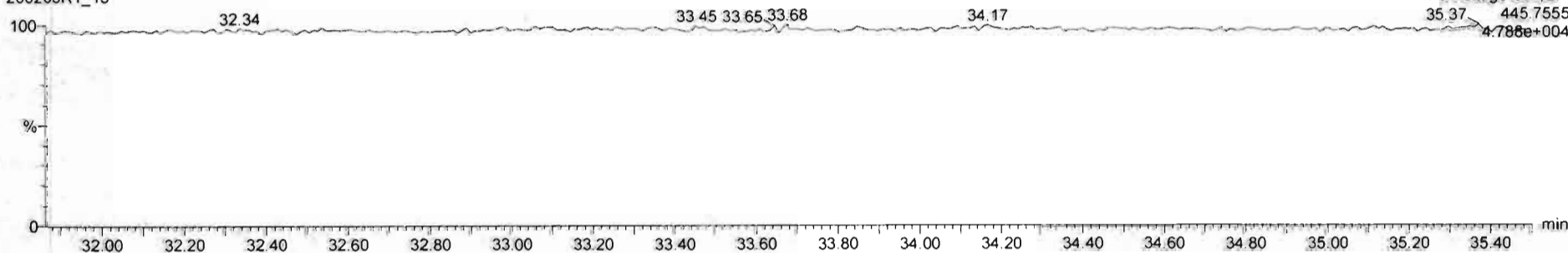


200203R1_15



DPE3

200203R1_15



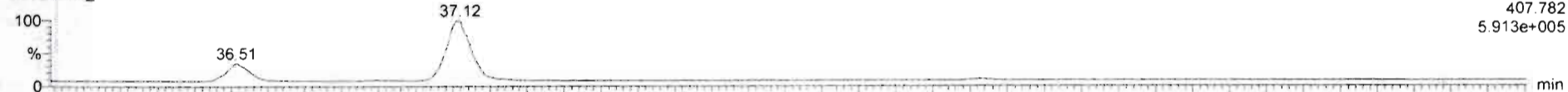
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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

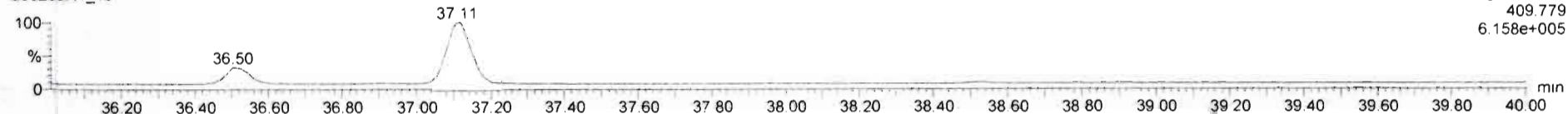
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

1,2,3,4,6,7,8-HpCDF

200203R1_15

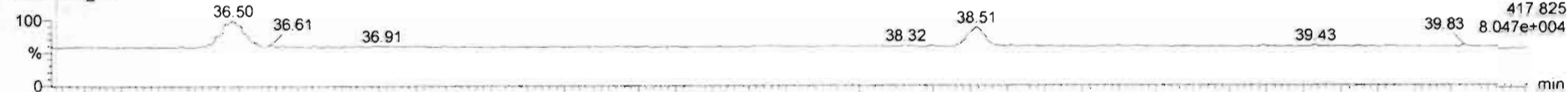


200203R1_15

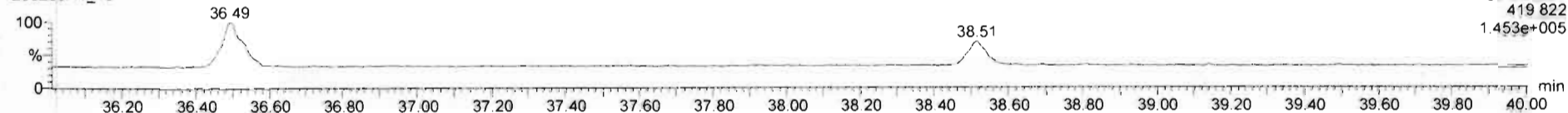


13C-1,2,3,4,6,7,8-HpCDF

200203R1_15

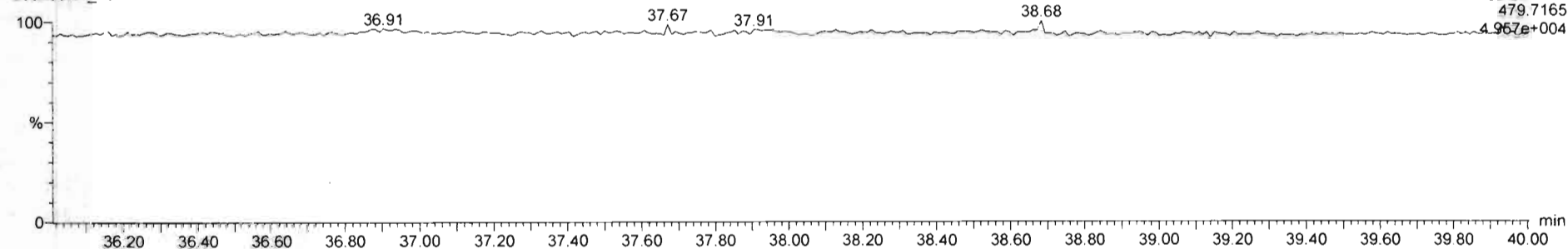


200203R1_15



DPE4

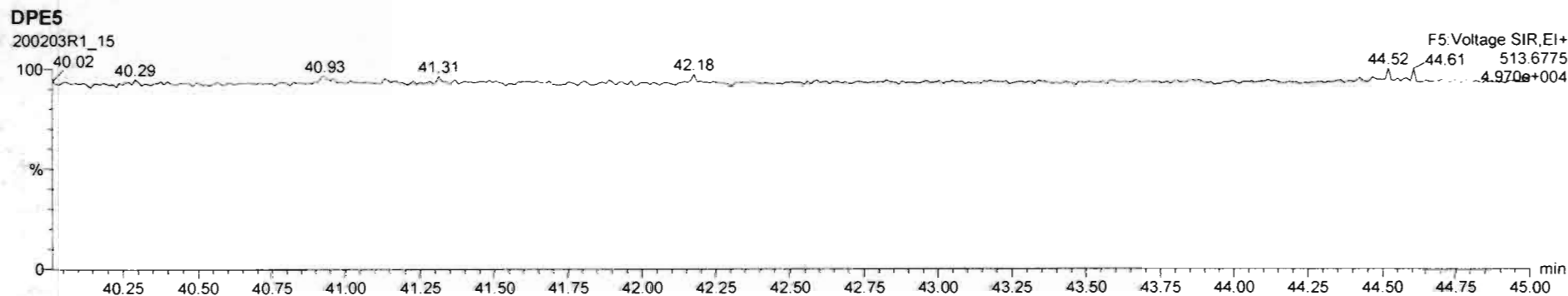
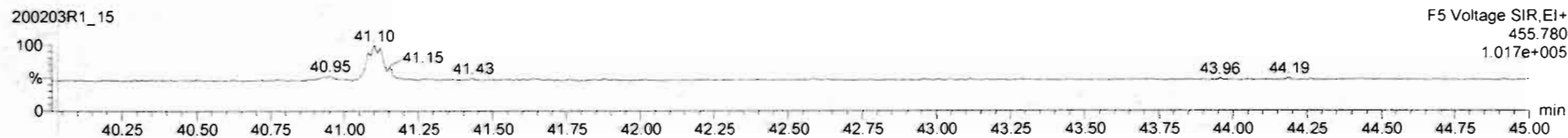
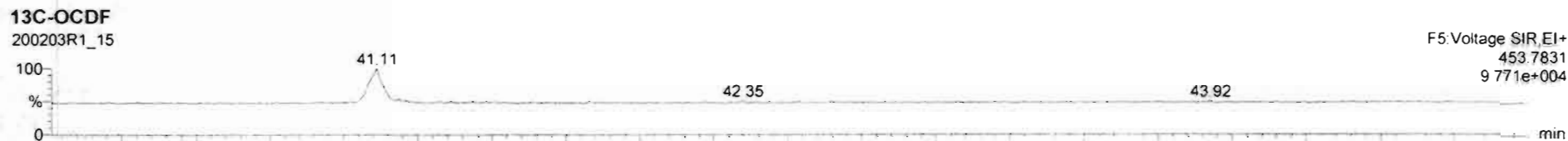
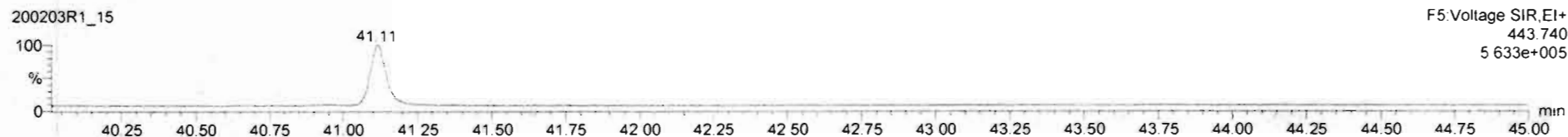
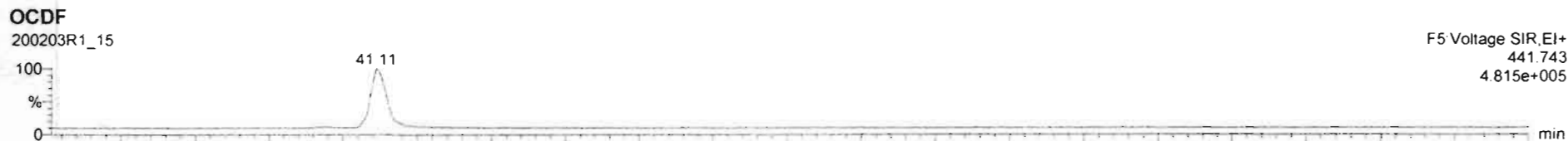
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Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

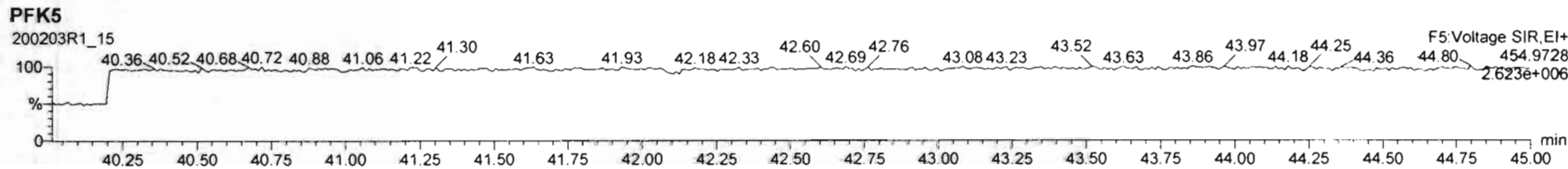
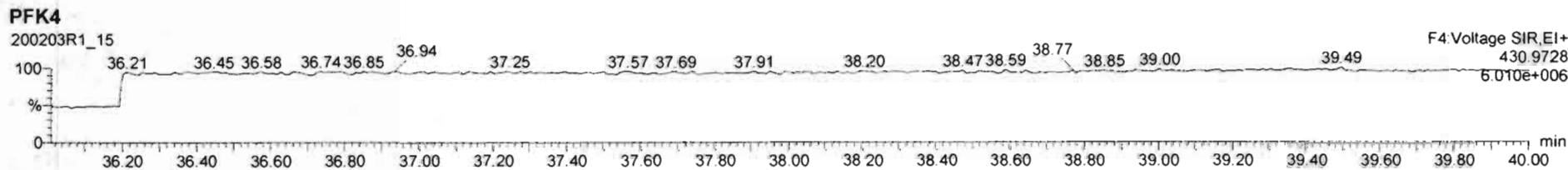
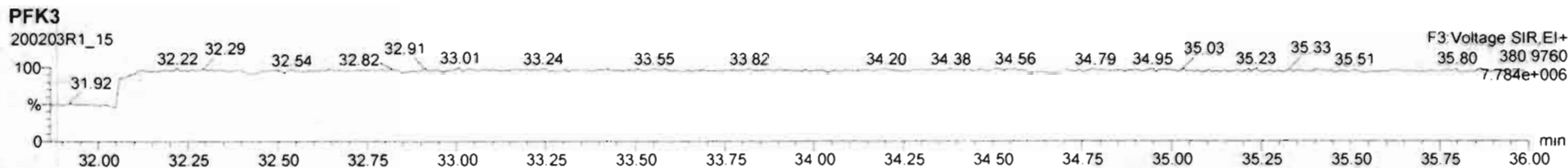
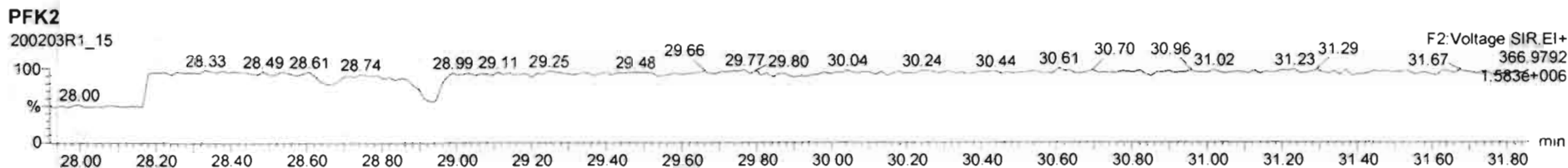
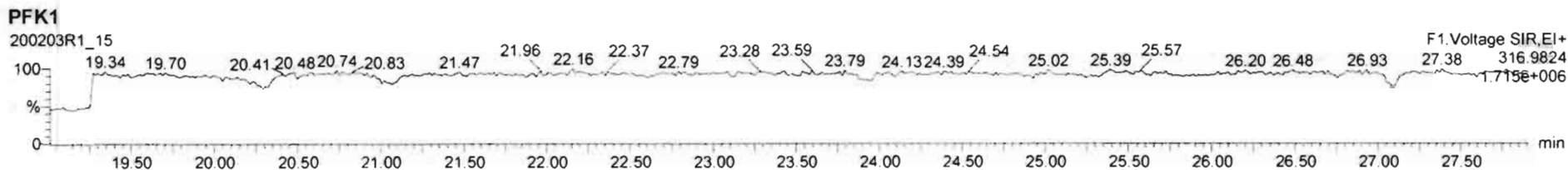
Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013



Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_15, Date: 03-Feb-2020, Time: 23:00:42, ID: 1903654-01@25X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013



Dataset: U:\VG12.PRO\Results\200203R1\200203R1-14B.qld

Last Altered: Friday, March 13, 2020 13:04:07 Pacific Daylight Time
Printed: Friday, March 13, 2020 13:05:22 Pacific Daylight Time

HL 3-13-2020 CT 03/13/2020

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

X See dilution

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.988	10.057	25.931		1.001				4.14	
2	2 1,2,3,7,8-PeCDD	1.33e3	0.68	NO	0.972	10.057	30.765	30.76	1.001	1.000	5.1952		4.37	5.20
3	3 1,2,3,4,7,8-HxCDD	5.14e3	1.28	NO	1.07	10.057	34.082	34.09	1.000	1.001	27.929		8.51	27.9
4	4 1,2,3,6,7,8-HxCDD	4.94e4	1.26	NO	0.921	10.057	34.189	34.20	1.000	1.000	235.77		8.41	236
5	5 1,2,3,7,8,9-HxCDD	1.60e4	1.28	NO	0.918	10.057	34.500	34.49	1.001	1.001	67.692		6.73	67.7
6	6 1,2,3,4,6,7,8-HpCDD	3.03e6	1.01	NO	0.923	10.057	37.992	37.99	1.000	1.000	21249		31.8	21200
7	7 OCDD	9.80e6	0.90	NO	0.975	10.057	40.985	40.99	1.000	1.000	125570		22.8	126000
8	8 2,3,7,8-TCDF	7.09e3	0.89	YES	0.802	10.057	25.057	25.05	1.001	1.001	46.047	<i>OK</i>	4.30	43.0
9	9 1,2,3,7,8-PeCDF	2.22e4	1.43	NO	0.907	10.057	29.528	29.52	1.001	1.001	68.085		2.89	68.1
10	10 2,3,4,7,8-PeCDF	1.44e4	1.51	NO	0.952	10.057	30.499	30.48	1.001	1.000	45.601		3.00	45.6
11	11 1,2,3,4,7,8-HxCDF	2.53e4	1.10	NO	0.862	10.057	33.210	33.23	1.000	1.001	123.24		2.60	123
12	12 1,2,3,6,7,8-HxCDF	7.28e3	1.16	NO	0.841	10.057	33.337	33.35	1.000	1.001	32.780		2.59	32.8
13	13 2,3,4,6,7,8-HxCDF	2.54e3	1.07	NO	0.898	10.057	33.947	33.92	1.001	1.000	12.201		2.86	12.2
14	14 1,2,3,7,8,9-HxCDF	4.92e2	1.08	NO	0.858	10.057	34.829	34.83	1.000	1.000	2.6837		3.06	2.68
15	15 1,2,3,4,6,7,8-HpCDF	1.03e5	0.99	NO	0.851	10.057	36.602	36.59	1.001	1.001	643.36		5.83	643
16	16 1,2,3,4,7,8,9-HpCDF	5.99e3	1.03	NO	0.980	10.057	38.556	38.57	1.000	1.000	56.435		8.15	56.4
17	17 OCDF	3.52e5	0.84	NO	0.806	10.057	41.166	41.18	1.000	1.000	4395.1		8.07	4400
18	18 13C-2,3,7,8-TCDD	3.49e4	0.78	NO	1.20	10.057	25.905	25.90	1.026	1.025	30.820	15.5	1.22	
19	19 13C-1,2,3,7,8-PeCDD	5.25e4	0.65	NO	0.967	10.057	30.686	30.74	1.215	1.217	57.490	28.9	1.15	
20	20 13C-1,2,3,4,7,8-HxCDD	3.42e4	1.26	NO	0.874	10.057	34.074	34.07	1.014	1.014	57.750	29.0	1.27	
21	21 13C-1,2,3,6,7,8-HxCDD	4.53e4	1.27	NO	1.05	10.057	34.175	34.19	1.017	1.017	63.892	32.1	1.06	
22	22 13C-1,2,3,7,8,9-HxCDD	5.13e4	1.22	NO	0.974	10.057	34.478	34.47	1.026	1.026	77.777	39.1	1.14	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.07e4	0.98	NO	0.747	10.057	38.040	37.98	1.132	1.130	60.758	30.6	1.47	
24	24 13C-OCDD	3.18e4	0.90	NO	0.707	10.057	40.930	40.99	1.218	1.220	66.539	16.7	1.17	
25	25 13C-2,3,7,8-TCDF	3.82e4	0.75	NO	1.07	10.057	25.079	25.03	0.993	0.991	25.664	12.9	1.66	
26	26 13C-1,2,3,7,8-PeCDF	7.15e4	1.58	NO	1.00	10.057	29.448	29.51	1.166	1.168	51.097	25.7	1.24	
27	27 13C-2,3,4,7,8-PeCDF	6.61e4	1.59	NO	0.962	10.057	30.408	30.47	1.204	1.206	49.172	24.7	1.30	
28	28 13C-1,2,3,4,7,8-HxCDF	4.74e4	0.49	NO	1.05	10.057	33.201	33.21	0.988	0.988	66.716	33.5	1.13	
29	29 13C-1,2,3,6,7,8-HxCDF	5.25e4	0.52	NO	1.19	10.057	33.302	33.33	0.991	0.992	65.173	32.8	1.00	
30	30 13C-2,3,4,6,7,8-HxCDF	4.61e4	0.52	NO	1.07	10.057	33.910	33.91	1.009	1.009	63.889	32.1	1.12	
31	31 13C-1,2,3,7,8,9-HxCDF	4.25e4	0.51	NO	0.922	10.057	34.814	34.83	1.036	1.036	68.101	34.2	1.29	

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-14B.qld

Last Altered: Friday, March 13, 2020 13:04:07 Pacific Daylight Time
Printed: Friday, March 13, 2020 13:05:22 Pacific Daylight Time

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.73e4	0.43	NO	0.767	10.057	36.561	36.56	1.088	1.088	71.867	36.1	1.27	
33	13C-1,2,3,4,7,8,9-HpCDF	2.15e4	0.45	NO	0.552	10.057	38.577	38.56	1.148	1.147	57.557	28.9	1.77	
34	13C-OCDF	3.95e4	0.85	NO	0.789	10.057	41.165	41.17	1.225	1.225	73.915	18.6	1.07	
35	37Cl-2,3,7,8-TCDD	1.44e4			1.18	10.057	25.938	25.93	1.027	1.027	12.994	16.3	0.396	
36	13C-1,2,3,4-TCDD	1.88e5	0.77	NO	1.00	10.057	25.080	25.26	1.000	1.000	198.86	100	1.46	
37	13C-1,2,3,4-TCDF	2.78e5	0.76	NO	1.00	10.057	23.420	23.63	1.000	1.000	198.86	100	1.77	
38	13C-1,2,3,4,6,9-HxCDF	1.35e5	0.51	NO	1.00	10.057	33.520	33.60	1.000	1.000	198.86	100	1.19	
39	Total Tetra-Dioxins				0.988	10.057	24.620		0.000		35.714		4.14	62.9
40	Total Penta-Dioxins				0.972	10.057	29.960		0.000		120.57		4.37	146
41	Total Hexa-Dioxins				0.921	10.057	33.635		0.000		4531.5		8.13	4530
42	Total Hepta-Dioxins				0.923	10.057	37.640		0.000		55293		31.8	55300
43	Total Tetra-Furans				0.802	10.057	23.610		0.000		67.684		4.30	111
44	1st Func. Penta-Furans				0.907	10.057	27.090		0.000		25.371		1.53	25.4
45	Total Penta-Furans				0.907	10.057	29.275		0.000		186.71		3.01	194
46	Total Hexa-Furans				0.898	10.057	33.555		0.000		643.56		2.66	644
47	Total Hepta-Furans				0.851	10.057	37.835		0.000		3910.8		7.13	3930

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-14B.qld

Last Altered: Friday, March 13, 2020 13:04:07 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:05:22 Pacific Daylight Time

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.94	5.770e3	6.140e3	4.990e2	6.002e2	0.83	NO	1.099e3	6.3357	6.3357	4.14
2	Total Tetra-Dioxins	24.06	8.621e3	1.107e4	6.661e2	1.018e3	0.65	YES	0.000e0	0.00000	8.8253	4.14
3	Total Tetra-Dioxins	24.24	7.771e3	9.024e3	7.514e2	8.386e2	0.90	YES	0.000e0	0.00000	8.5561	4.14
4	Total Tetra-Dioxins	24.85	9.676e3	1.341e4	8.384e2	1.229e3	0.68	NO	2.068e3	11.918	11.918	4.14
5	Total Tetra-Dioxins	25.24	9.054e3	8.863e3	6.712e2	8.546e2	0.79	NO	1.526e3	8.7953	8.7953	4.14
6	Total Tetra-Dioxins	25.63	6.644e3	6.057e3	4.129e2	3.905e2	1.06	YES	0.000e0	0.00000	3.9840	4.14
7	Total Tetra-Dioxins	25.76	6.007e3	9.683e3	4.370e2	7.771e2	0.56	YES	0.000e0	0.00000	5.7905	4.14
8	Total Tetra-Dioxins	26.20	7.939e3	1.184e4	6.137e2	8.897e2	0.69	NO	1.503e3	8.6657	8.6657	4.14

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.76	3.295e4	4.934e4	3.126e3	5.010e3	0.62	NO	8.137e3	31.679	31.679	4.37
2	Total Penta-Dioxins	29.11	3.312e4	5.972e4	1.249e3	2.171e3	0.58	NO	3.420e3	13.317	13.317	4.37
3	Total Penta-Dioxins	29.55	1.830e4	2.720e4	9.283e2	1.800e3	0.52	YES	0.000e0	0.00000	9.3517	4.37
4	Total Penta-Dioxins	29.72	2.260e4	3.040e4	1.097e3	1.542e3	0.71	NO	2.639e3	10.273	10.273	4.37
5	Total Penta-Dioxins	29.83	2.041e4	2.996e4	1.235e3	1.799e3	0.69	NO	3.034e3	11.814	11.814	4.37
6	Total Penta-Dioxins	30.07	5.086e4	8.770e4	4.520e3	7.883e3	0.57	NO	1.240e4	48.289	48.289	4.37
7	Total Penta-Dioxins	30.38	9.551e3	1.498e4	6.908e2	9.396e2	0.74	YES	0.000e0	0.00000	5.9629	4.37
8	1,2,3,7,8-PeCDD	30.76	1.018e4	1.327e4	5.378e2	7.966e2	0.68	NO	1.334e3	5.1952	5.1952	4.37
9	Total Penta-Dioxins	30.83	1.778e4	2.527e4	1.200e3	1.615e3	0.74	YES	0.000e0	0.00000	10.252	4.37

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-14B.qld

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 Printed: Friday, March 13, 2020 13:05:22 Pacific Daylight Time

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.62	4.835e6	3.881e6	2.464e5	1.995e5	1.23	NO	4.459e5	2208.7	2208.7	8.13
2	Total Hexa-Dioxins	33.16	3.689e5	3.229e5	2.021e4	1.717e4	1.18	NO	3.738e4	185.16	185.16	8.13
3	Total Hexa-Dioxins	33.41	2.446e6	2.014e6	1.712e5	1.397e5	1.23	NO	3.108e5	1539.8	1539.8	8.13
4	Total Hexa-Dioxins	33.52	3.471e5	2.654e5	1.968e4	1.534e4	1.28	NO	3.502e4	173.48	173.48	8.13
5	1,2,3,4,7,8-HxCDD	34.09	5.666e4	3.497e4	2.890e3	2.250e3	1.28	NO	5.140e3	27.929	27.929	8.51
6	1,2,3,6,7,8-HxCDD	34.20	4.478e5	3.373e5	2.751e4	2.190e4	1.26	NO	4.942e4	235.77	235.77	8.41
7	Total Hexa-Dioxins	34.39	1.826e5	1.560e5	1.008e4	8.697e3	1.16	NO	1.877e4	92.998	92.998	8.13
8	1,2,3,7,8,9-HxCDD	34.49	1.693e5	1.294e5	9.001e3	7.040e3	1.28	NO	1.604e4	67.692	67.692	6.73

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.97	3.678e7	3.644e7	2.435e6	2.423e6	1.01	NO	4.859e6	34044	34044	31.8
2	1,2,3,4,6,7,8-HpCDD	37.99	2.270e7	2.279e7	1.521e6	1.511e6	1.01	NO	3.033e6	21249	21249	31.8

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.20	1.249e4	1.233e4	1.064e3	1.333e3	0.80	NO	2.397e3	15.558	15.558	4.30
2	Total Tetra-Furans	24.13	5.535e4	7.307e4	3.226e3	4.047e3	0.80	NO	7.273e3	47.206	47.206	4.30
3	2,3,7,8-TCDF	25.05	4.439e4	4.757e4	3.349e3	3.745e3	0.89	YES	7.094e3	0.00000	43.025	4.30
4	Total Tetra-Furans	25.39	5.990e3	8.049e3	3.270e2	4.311e2	0.76	NO	7.582e2	4.9210	4.9210	4.30

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.11	6.204e4	3.840e4	4.872e3	3.093e3	1.58	NO	7.965e3	25.371	25.371	1.53

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-14B.qld

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Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.70	7.328e4	4.255e4	6.486e3	4.132e3	1.57	NO	1.062e4	33.824	33.824	3.01
2	Total Penta-Furans	29.16	2.137e4	1.678e4	1.435e3	1.105e3	1.30	YES	0.000e0	0.00000	7.5201	3.01
3	Total Penta-Furans	29.35	2.794e4	1.874e4	1.617e3	1.135e3	1.42	NO	2.753e3	8.7683	8.7683	3.01
4	1,2,3,7,8-PeCDF	29.52	2.255e5	1.457e5	1.308e4	9.139e3	1.43	NO	2.222e4	68.085	68.085	2.89
5	Total Penta-Furans	29.60	3.584e4	1.757e4	8.501e2	5.231e2	1.63	NO	1.373e3	4.3741	4.3741	3.01
6	Total Penta-Furans	29.78	7.780e4	4.329e4	4.913e3	3.267e3	1.50	NO	8.181e3	26.059	26.059	3.01
7	2,3,4,7,8-PeCDF	30.48	1.250e5	7.897e4	8.666e3	5.752e3	1.51	NO	1.442e4	45.601	45.601	3.00

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.15	2.433e4	1.632e4	8.316e2	7.222e2	1.15	NO	1.554e3	7.2964	7.2964	2.66
2	Total Hexa-Furans	32.26	1.478e5	1.196e5	7.784e3	6.580e3	1.18	NO	1.436e4	67.453	67.453	2.66
3	Total Hexa-Furans	32.77	8.399e5	7.257e5	4.430e4	3.776e4	1.17	NO	8.205e4	385.31	385.31	2.66
4	1,2,3,4,7,8-HxCDF	33.23	2.397e5	2.213e5	1.329e4	1.204e4	1.10	NO	2.533e4	123.24	123.24	2.60
5	1,2,3,6,7,8-HxCDF	33.35	6.133e4	6.176e4	3.917e3	3.367e3	1.16	NO	7.284e3	32.780	32.780	2.59
6	2,3,4,6,7,8-HxCDF	33.92	2.345e4	2.225e4	1.314e3	1.228e3	1.07	NO	2.542e3	12.201	12.201	2.86
7	1,2,3,7,8,9-HxCDF	34.83	1.078e4	1.170e4	2.553e2	2.371e2	1.08	NO	4.924e2	2.6837	2.6837	3.06
8	Total Hexa-Furans	34.86	2.573e4	2.305e4	1.454e3	1.227e3	1.19	NO	2.681e3	12.590	12.590	2.66

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	8.072e5	8.187e5	5.121e4	5.160e4	0.99	NO	1.028e5	643.36	643.36	5.83
2	Total Hepta-Furans	36.96	2.270e4	2.114e4	1.547e3	1.255e3	1.23	YES	0.000e0	0.00000	20.329	7.13
3	Total Hepta-Furans	37.18	3.045e6	3.261e6	1.982e5	2.063e5	0.96	NO	4.045e5	3211.0	3211.0	7.13
4	1,2,3,4,7,8,9-HpCDF	38.57	5.701e4	5.602e4	3.039e3	2.948e3	1.03	NO	5.987e3	56.435	56.435	8.15

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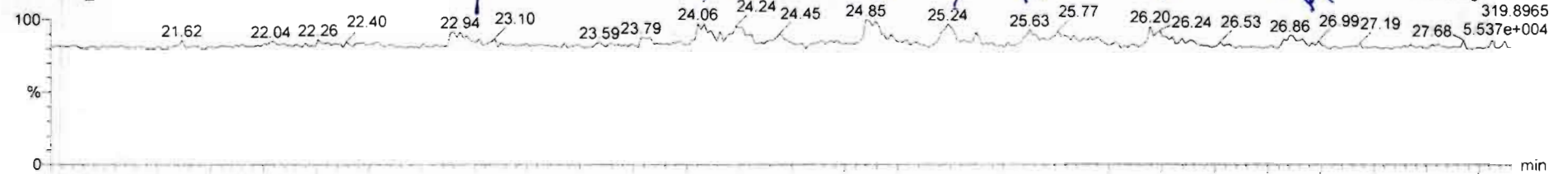
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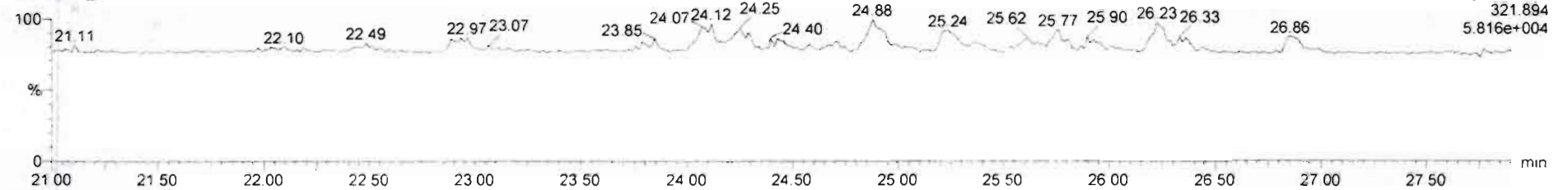
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2,3,7,8-TCDD

200203R1_14

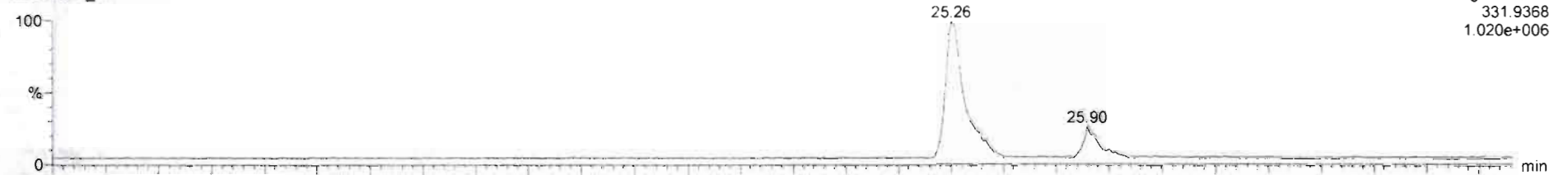


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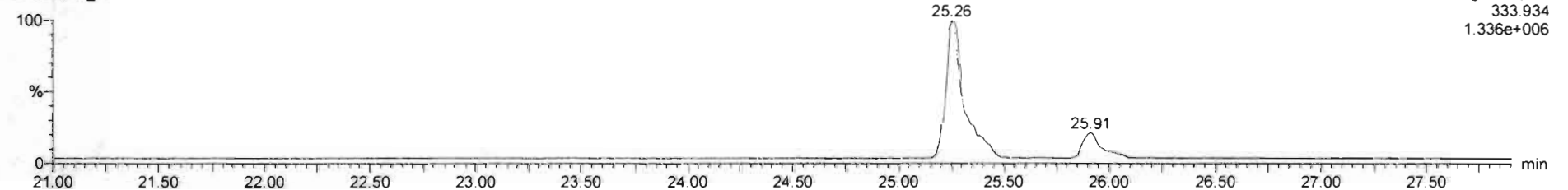


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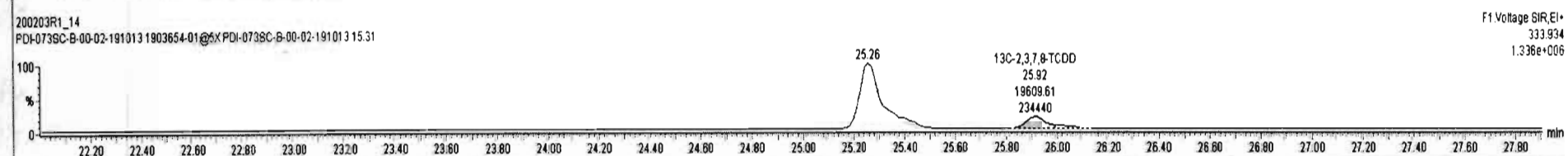
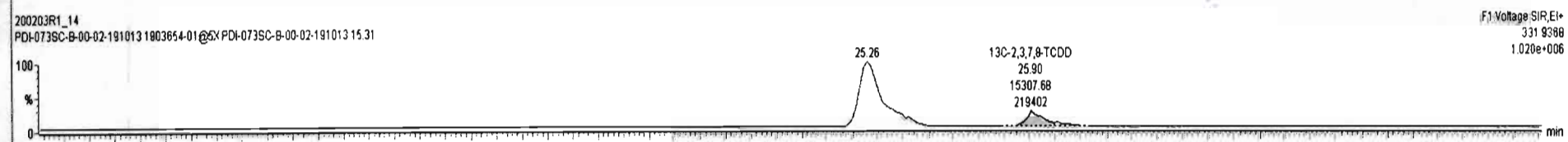
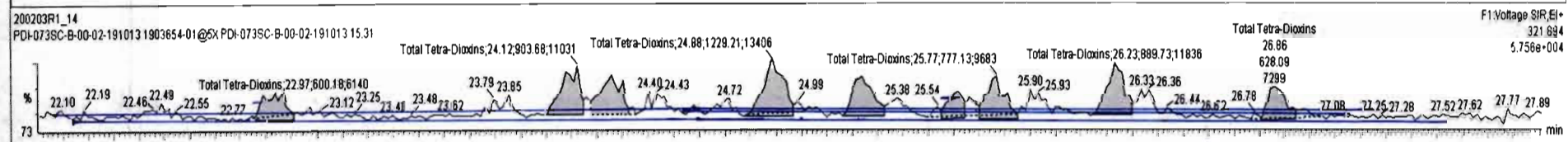
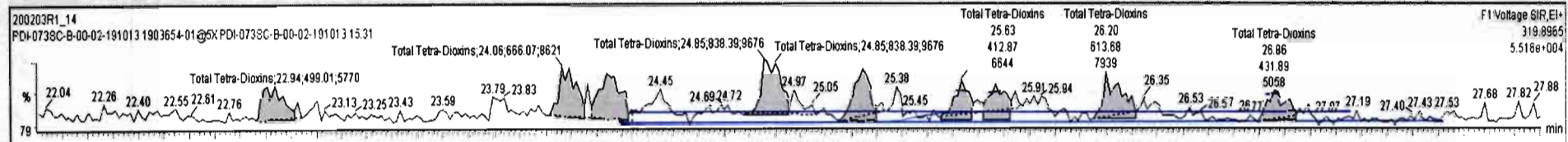


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Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
36 13C-1,2,3,4-TCDD	1.89e5	0.77	NO	1.0000	10.057	25.26	1.000	199	100	1.46	
37 13C-1,2,3,4-TCDF	2.78e5	0.76	NO	1.0000	10.057	23.63	1.000	199	100	1.77	
38 13C-1,2,3,4,6,9-HxCDF	1.35e5	0.51	NO	1.0000	10.057	33.60	1.000	199	100	1.19	
39 Total Tetra-Dioxins				0.9881	10.057			41.8		4.14	69.2
40 Total Penta-Dioxins				0.9723	10.057			124		4.37	151
41 Total Hexa-Dioxins				0.9211	10.057			4530		8.13	4530
42 Total Hepta-Dioxins				0.9231	10.057			55300		31.8	55300
43 Total Tetra-Furans				0.6020	10.057			4.78		4.59	118
44 1st Func. Penta-Furans				0.9074	10.057			25.4		1.53	25.4
45 Total Penta-Furans				0.9074	10.057			192		3.01	200
46 Total Hexa-Furans				0.8982	10.057			645		2.66	645

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.94	4.990e2	6.002e2	0.83	NO	6.3357	6.3357
2 Total Tetra-Dioxins	24.06	6.861e2	9.037e2	0.74	NO	9.0481	0.00000
3 Total Tetra-Dioxins	24.24	7.514e2	8.386e2	0.90	YES	8.5561	0.00000
4 Total Tetra-Dioxins	24.85	8.384e2	1.229e3	0.68	NO	11.918	11.918
5 Total Tetra-Dioxins	25.24	6.712e2	8.546e2	0.79	NO	8.7953	8.7953
6 Total Tetra-Dioxins	25.63	4.129e2	3.905e2	1.06	YES	3.9840	0.00000
7 Total Tetra-Dioxins	25.77	4.370e2	7.771e2	0.56	YES	5.7905	0.00000
8 Total Tetra-Dioxins	26.20	6.137e2	8.897e2	0.69	NO	8.6657	8.6657



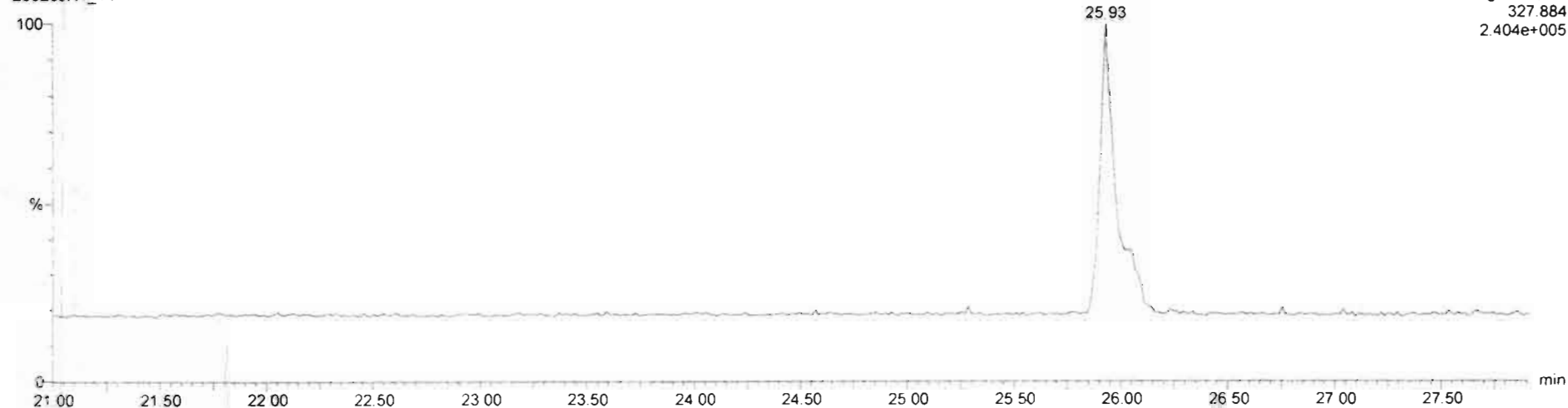
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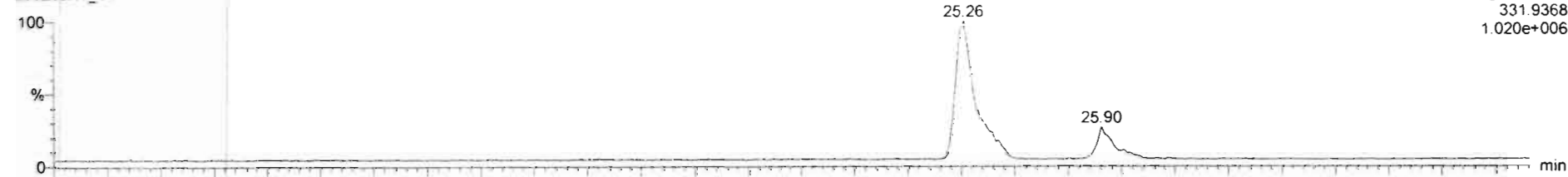
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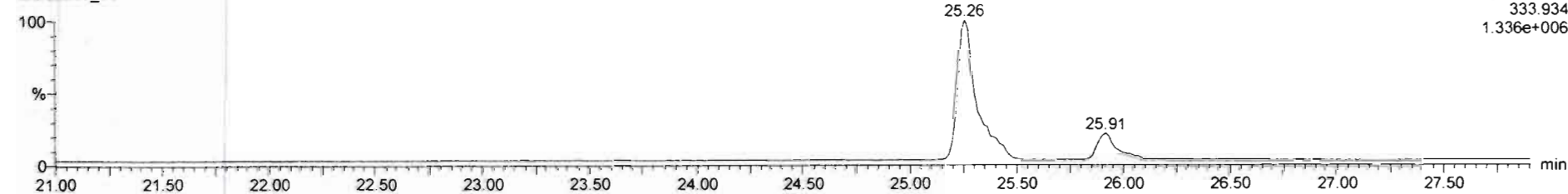


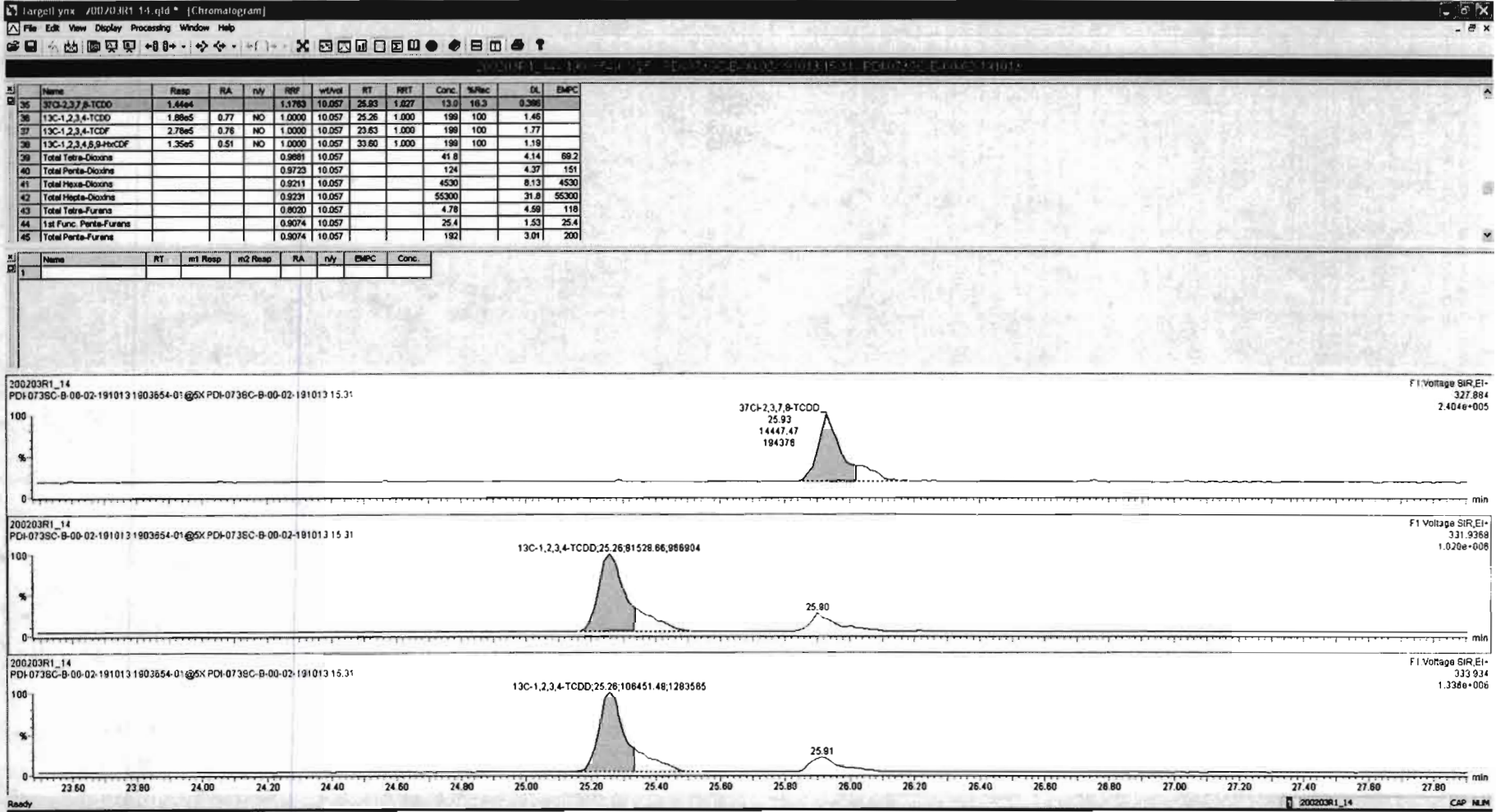
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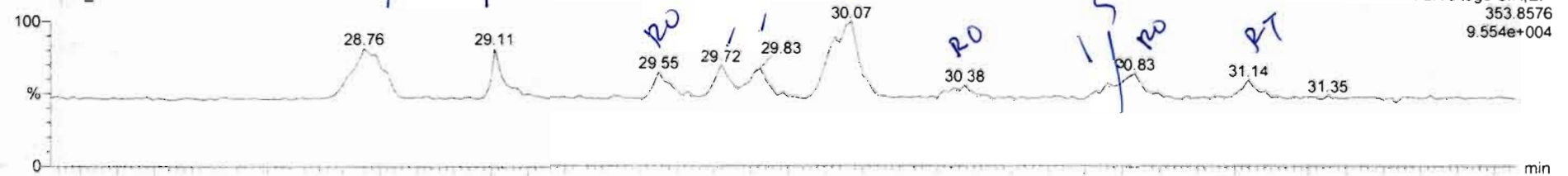
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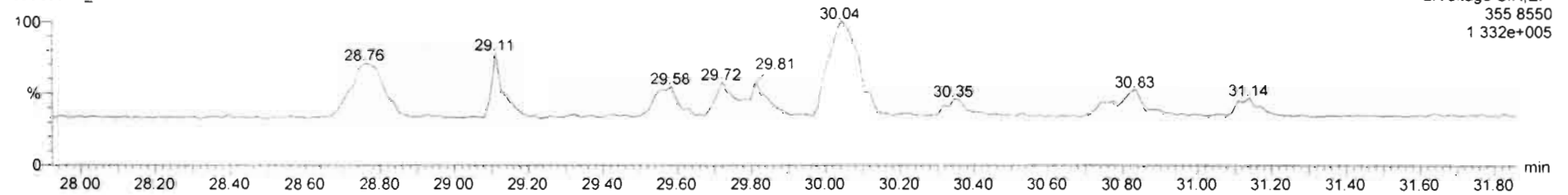
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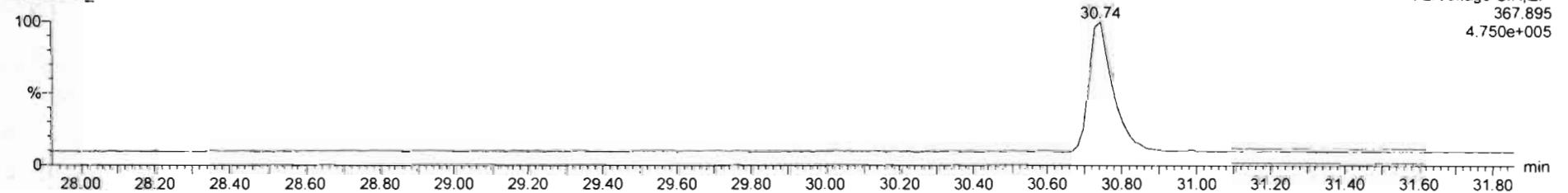


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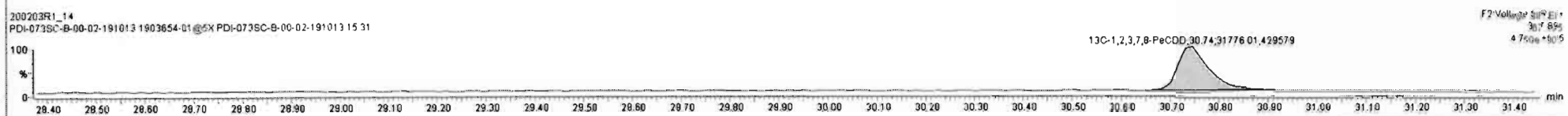
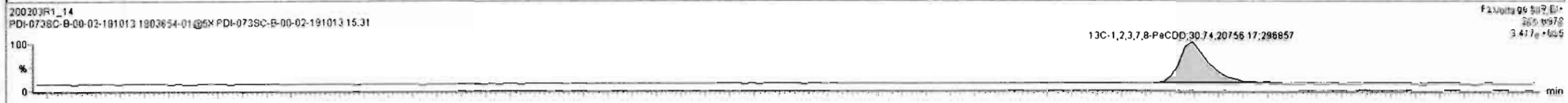
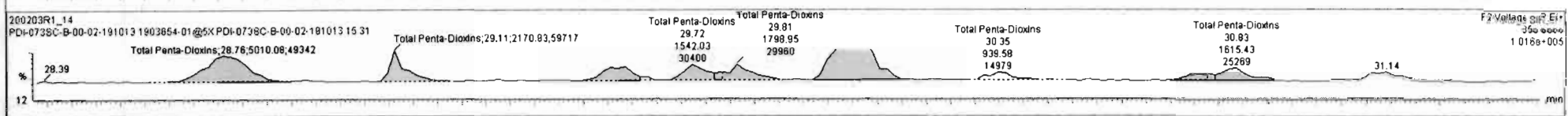
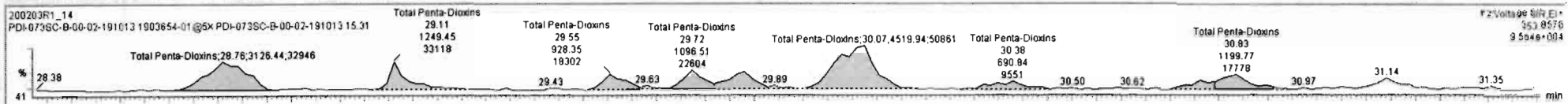
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200203R1_14 - 1903654-01@6X PDI-073SC-B-00-02-191013 15 31 - PDI-073SC-E-00-02-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RR1	Conc.	%Rec	DL	EMPC
36 13C-1,2,3,4,6,8-HxCDF	1.35e5	0.51	NO	1.0000	10.057	33.60	1.000	199	100	1.19	
39 Total Tetra-Dioxins				0.9881	10.057			35.7		4.14	62.9
40 Total Penta-Dioxins				0.9723	10.057			1.21		4.37	148
41 Total Hexa-Dioxins				0.9211	10.057			4530		8.13	4530
42 Total Hepta-Dioxins				0.9231	10.057			55300		31.8	55300
43 Total Tetra-Furans				0.8020	10.057			67.7		4.30	111
44 1st Func. Penta-Furans				0.9074	10.057			25.4		1.53	25.4
45 Total Penta-Furans				0.9074	10.057			187		3.01	194
46 Total Hexa-Furans				0.8902	10.057			844		2.86	644
47 Total Hepta-Furans				0.8511	10.057			3910		7.13	3930

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.76	3.126e3	5.010e3	0.62	NO	31.679	31.679
2 Total Penta-Dioxins	29.11	1.249e3	2.171e3	0.58	NO	13.317	13.317
3 Total Penta-Dioxins	29.55	8.283e2	1.800e3	0.52	YES	9.3517	0.00000
4 Total Penta-Dioxins	29.72	1.097e3	1.542e3	0.71	NO	10.273	10.273
5 Total Penta-Dioxins	29.83	1.235e3	1.799e3	0.69	NO	11.814	11.814
6 Total Penta-Dioxins	30.07	4.520e3	7.863e3	0.57	NO	48.288	48.288
7 Total Penta-Dioxins	30.38	6.908e2	9.396e2	0.74	YES	5.9629	0.00000
8 1,2,3,7,8-PeCDD	30.76	5.378e2	7.968e2	0.68	NO	5.1952	5.1952



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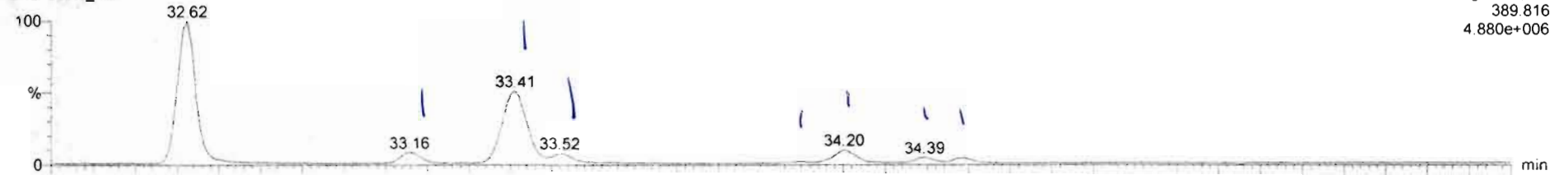
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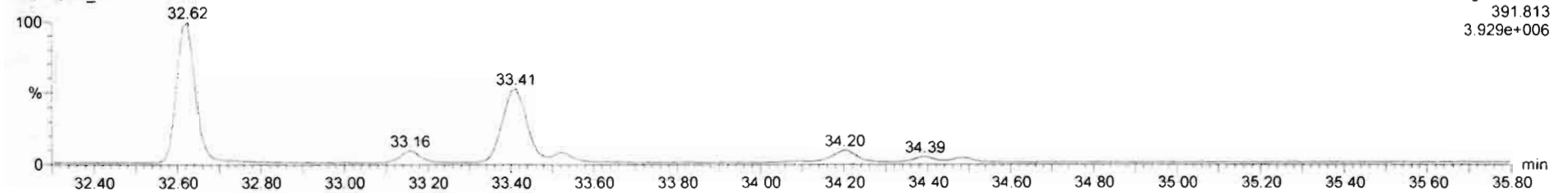
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200203R1_14



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4.880e+006

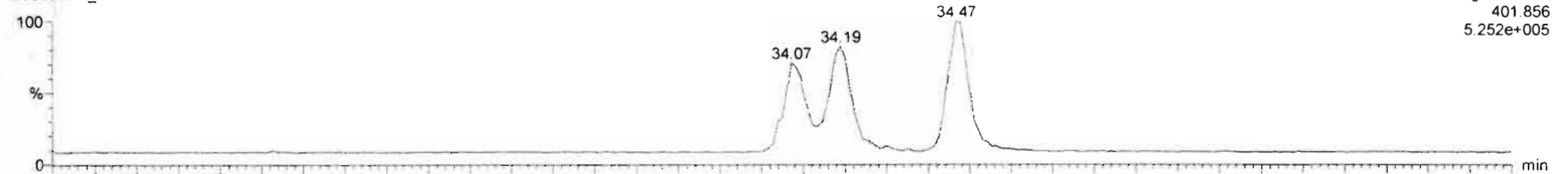
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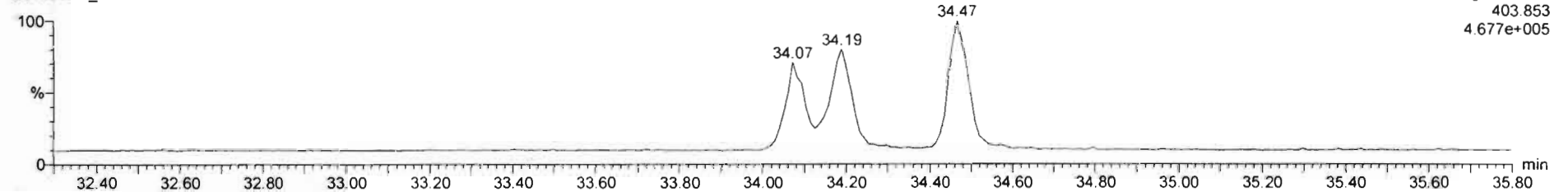
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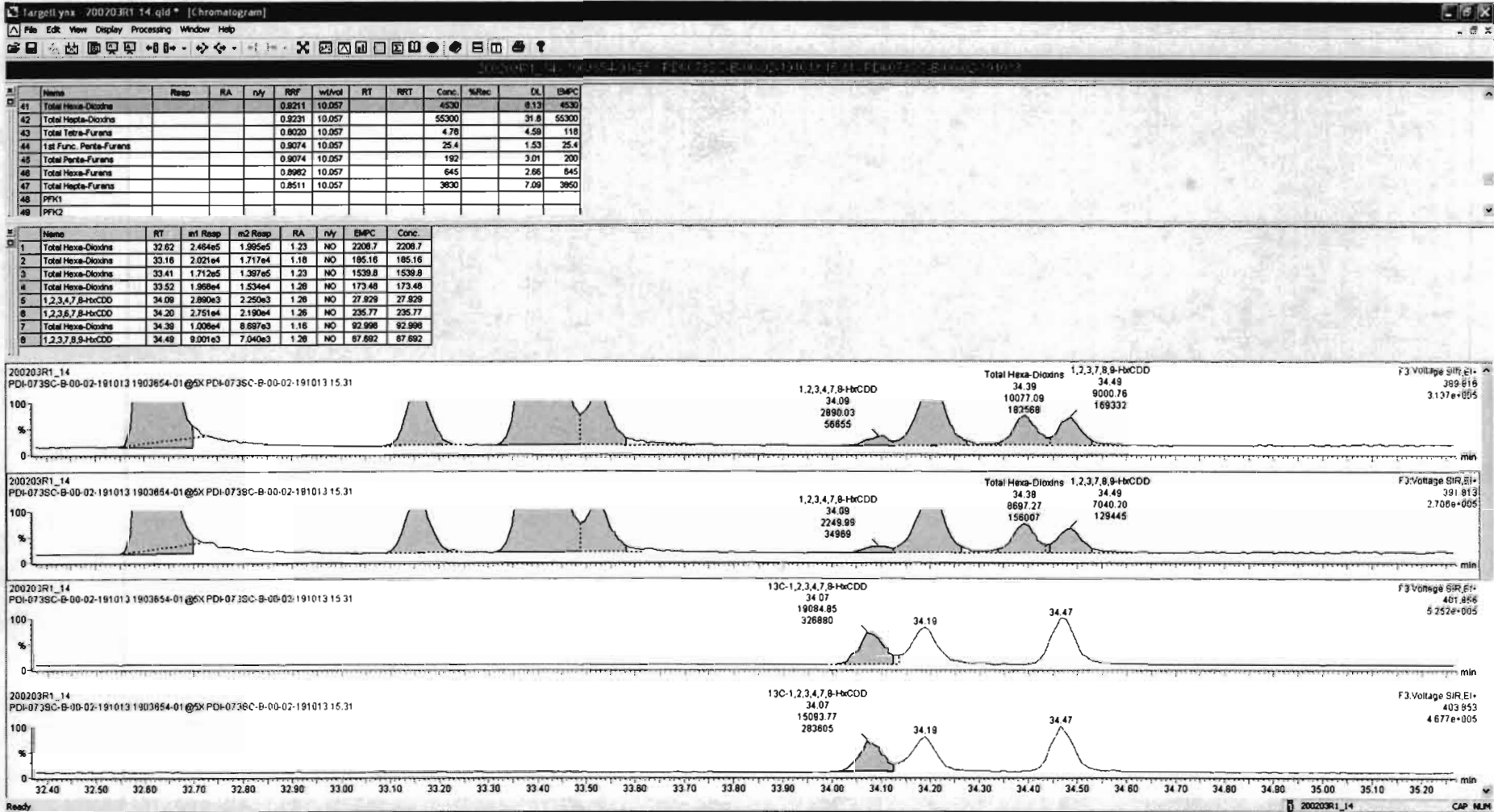


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5.252e+005

200203R1_14



F3: Voltage SIR, EI+
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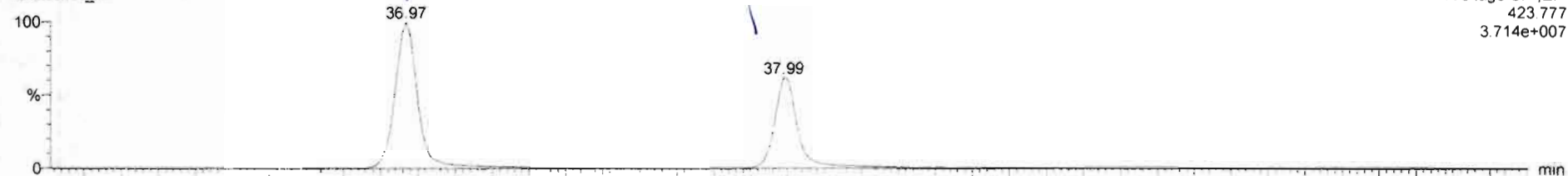
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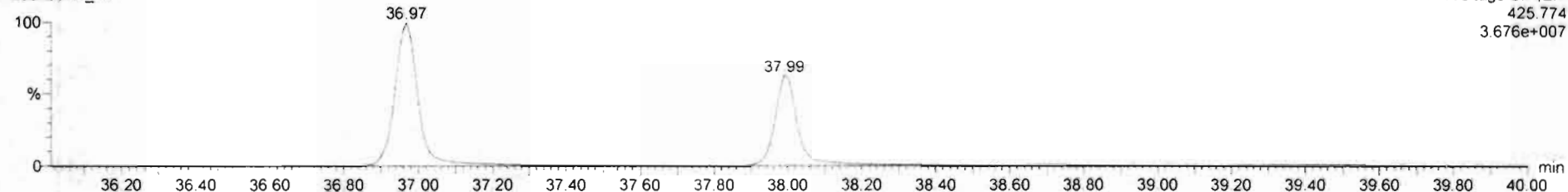
Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013

1,2,3,4,6,7,8-HpCDD

200203R1_14

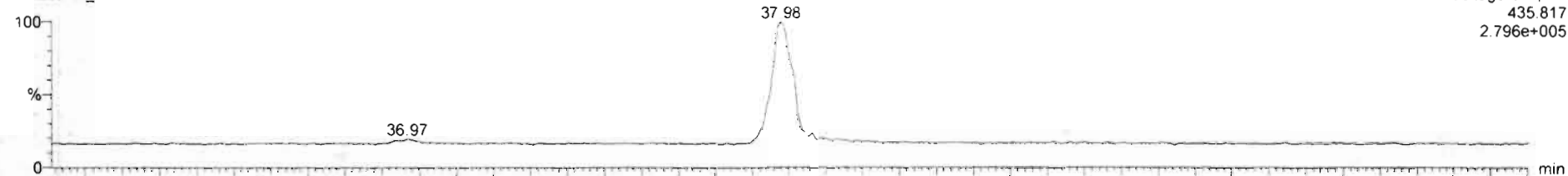


200203R1_14

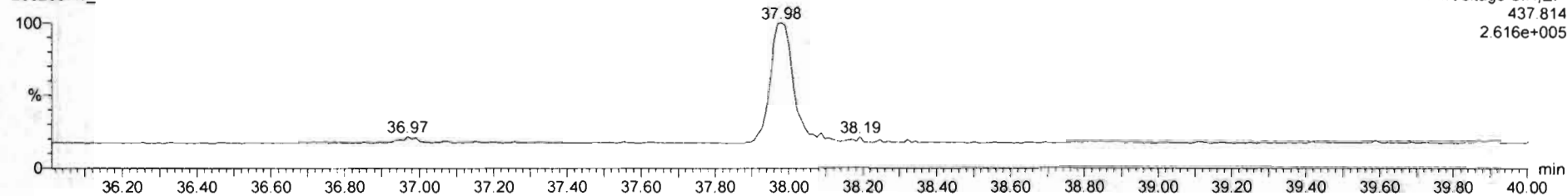


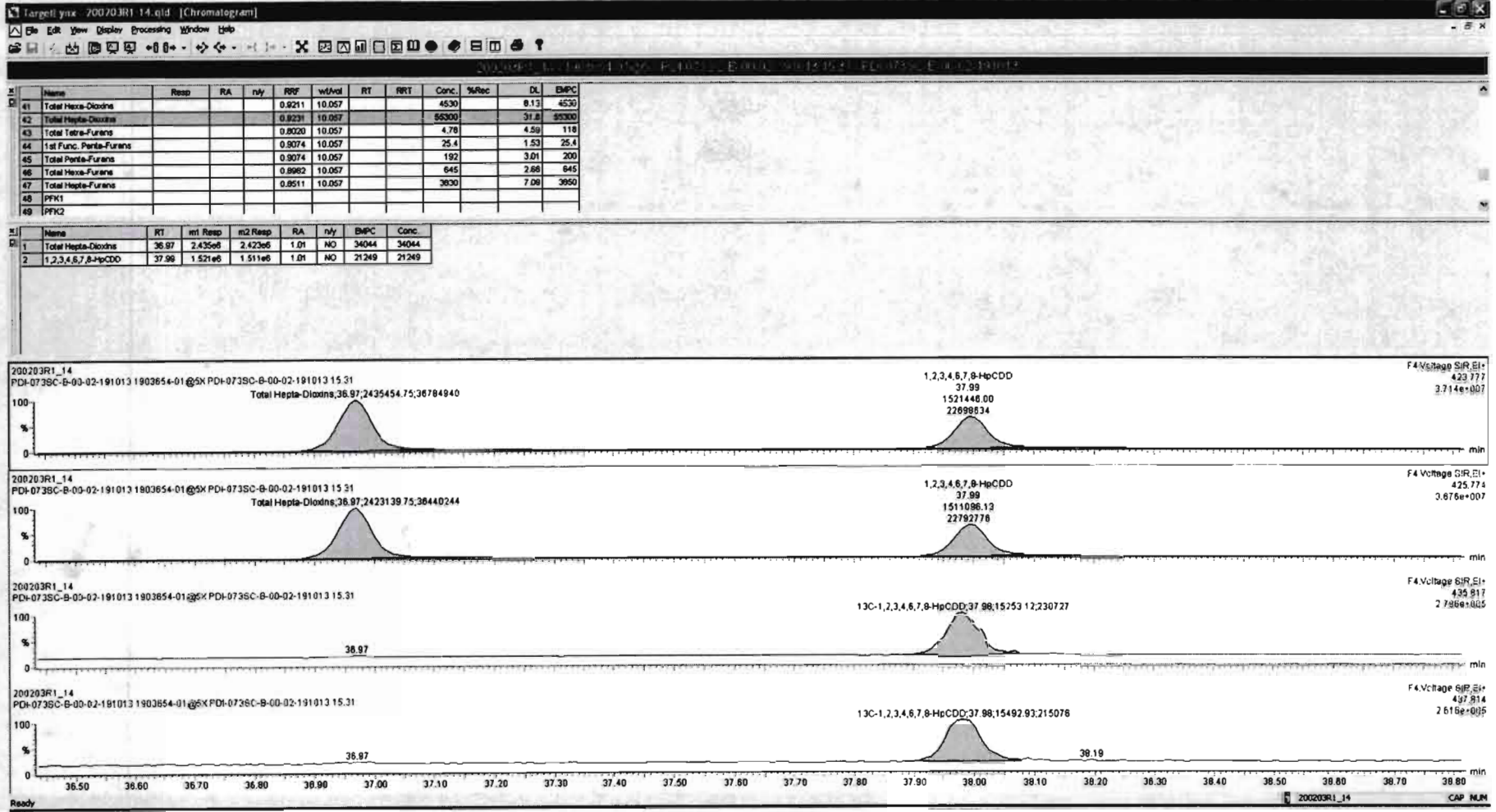
13C-1,2,3,4,6,7,8-HpCDD

200203R1_14



200203R1_14



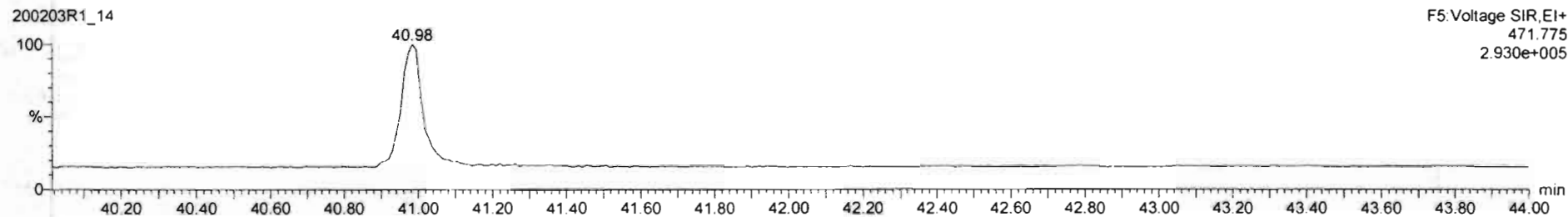
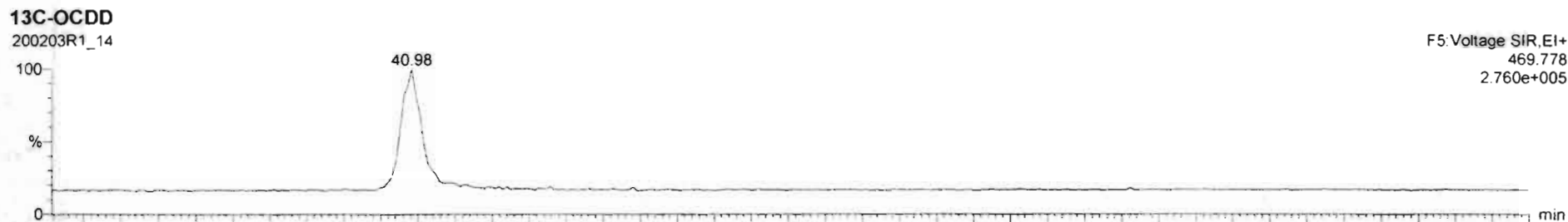
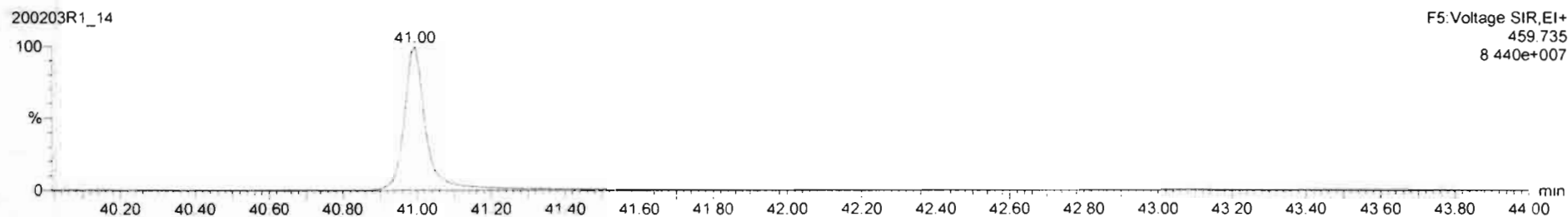
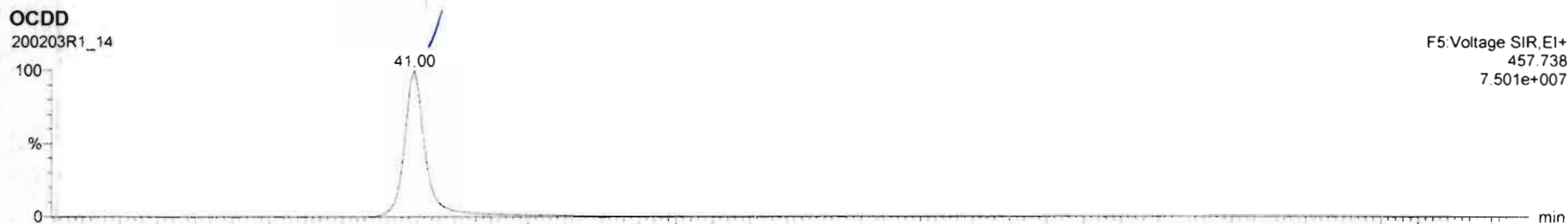


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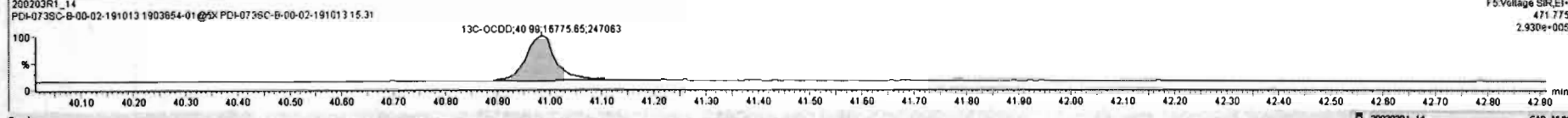
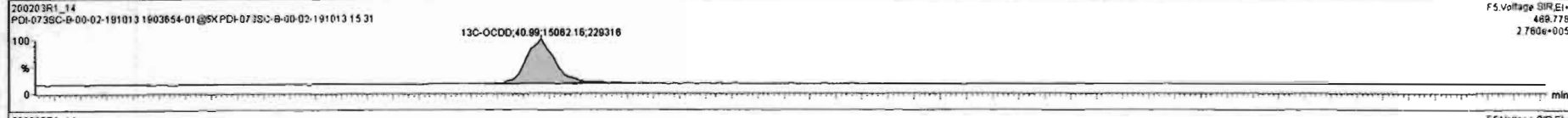
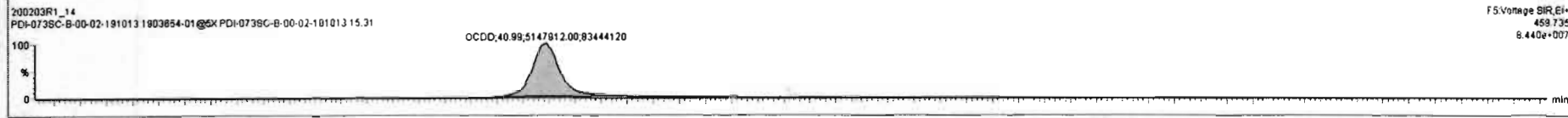
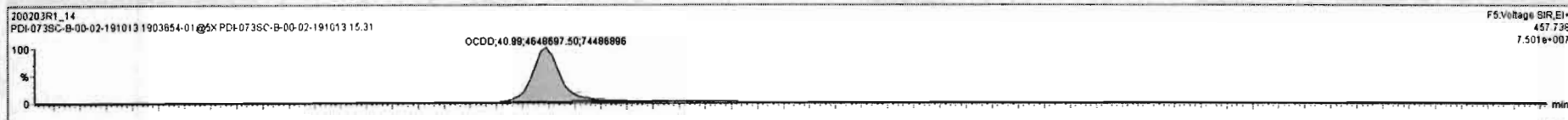
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Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013



#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HpCDD	3.03e6	1.01	NO	0.9231	10.057	37.99	1.000	21200		31.8	21200
7	OCDD	9.90e5	0.90	NO	0.9746	10.057	40.99	1.000	126000		22.8	126000
8	2,3,7,8-TCDF	7.00e3	0.89	YES	0.8020	10.057	25.05	1.001	46.0		4.30	43.0
9	1,2,3,7,8-PeCDF	2.35e4	1.44	NO	0.9074	10.057	29.52	1.001	71.9		2.89	71.9
10	2,3,4,7,8-PeCDF	1.45e4	1.49	NO	0.9516	10.057	30.48	1.000	45.8		3.00	45.8
11	1,2,3,4,7,8-HxCDF	2.53e4	1.10	NO	0.8623	10.057	33.23	1.001	123		2.60	123
12	1,2,3,6,7,8-HxCDF	7.87e3	1.06	NO	0.8414	10.057	33.35	1.001	35.4		2.59	35.4
13	2,3,4,6,7,8-HxCDF	2.87e3	1.06	NO	0.8962	10.057	33.92	1.000	12.8		2.86	12.8
14	1,2,3,7,8,9-HxCDF	3.21e3	1.10	NO	0.8578	10.057	34.86	1.001	17.5		3.06	17.5

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



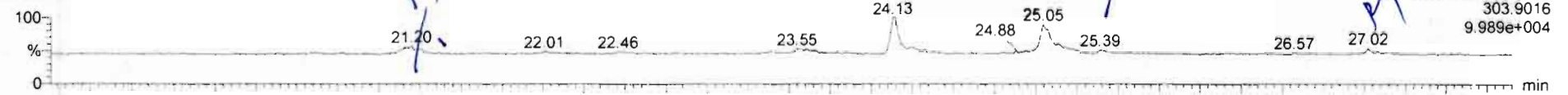
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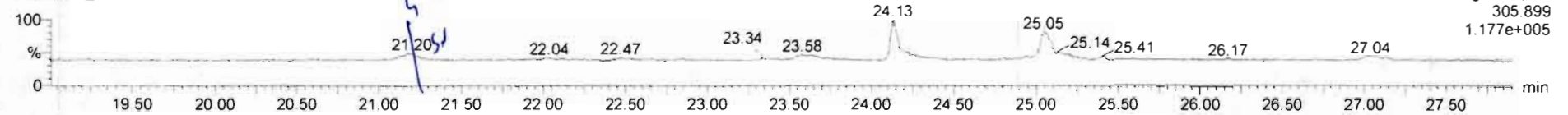
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2,3,7,8-TCDF

200203R1_14

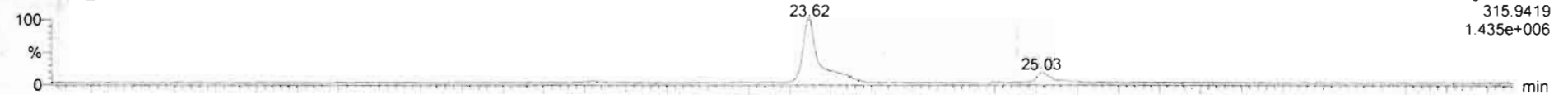


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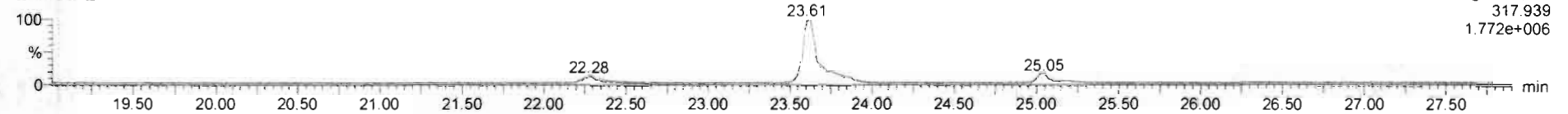


13C-2,3,7,8-TCDF

200203R1_14

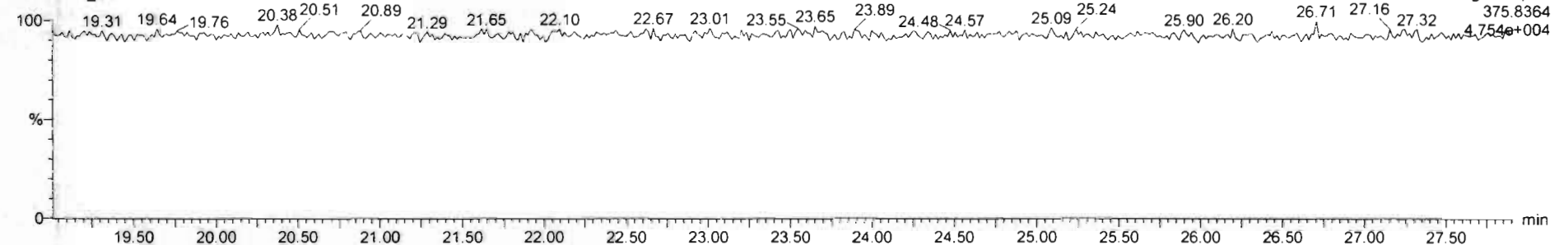


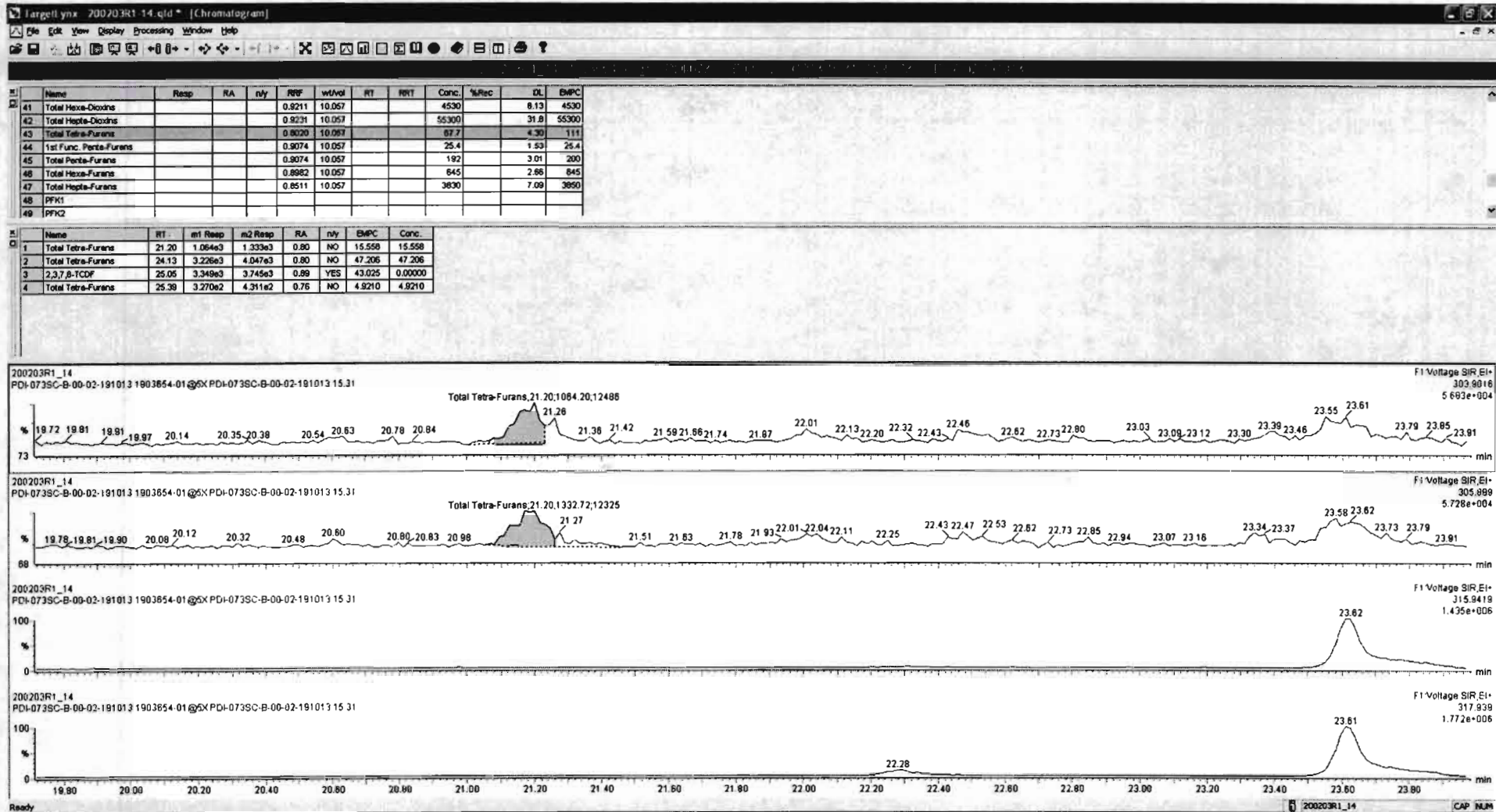
200203R1_14



DPE1

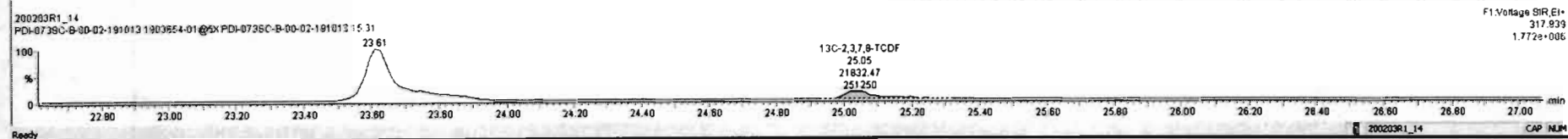
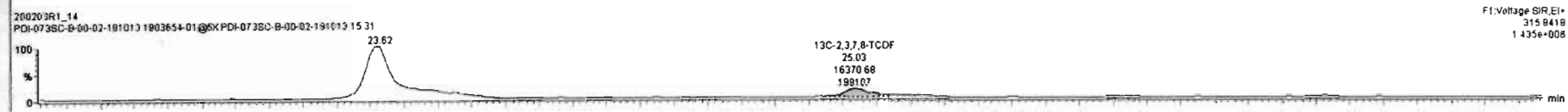
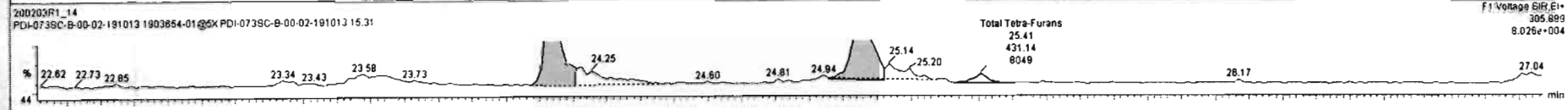
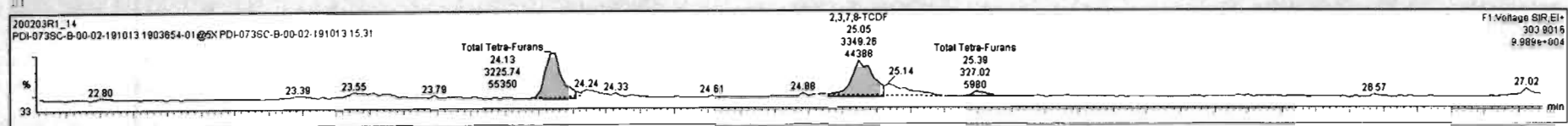
200203R1_14





Name	Resp	RA	n/y	RRF	Wt/Int	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.8211	10.057			4530		8.13	4530
42 Total Hepta-Dioxins				0.8231	10.057			56300		31.8	56300
43 Total Tetra-Furans				0.8020	10.057			67.7		4.30	111
44 1st Func. Penta-Furans				0.8074	10.057			25.4		1.53	25.4
45 Total Penta-Furans				0.8074	10.057			192		3.01	200
46 Total Hexa-Furans				0.8982	10.057			845		2.88	845
47 Total Hepta-Furans				0.8511	10.057			3830		7.09	3850
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	21.20	1.064e3	1.333e3	0.80	NO	15.558	15.558
2 Total Tetra-Furans	24.13	3.226e3	4.047e3	0.80	NO	47.208	47.208
3 2,3,7,8-TCDF	25.05	3.349e3	3.745e3	0.88	YES	43.025	0.00000
4 Total Tetra-Furans	25.38	3.270e2	4.311e2	0.78	NO	4.9210	4.9210



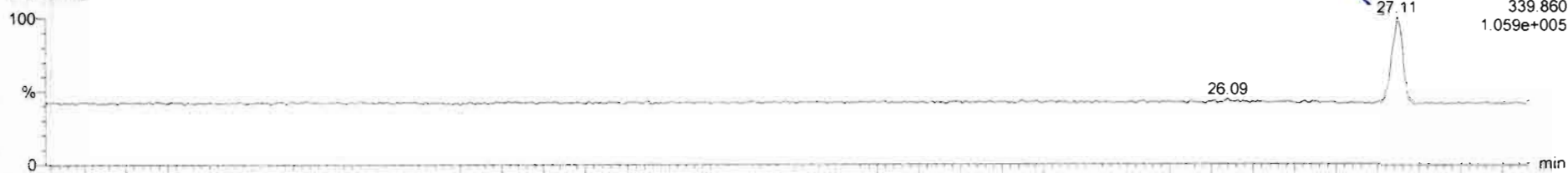
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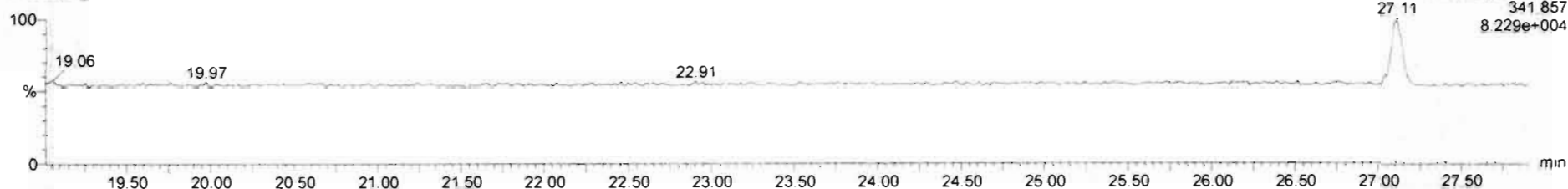
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1st Func. Penta-Furans

200203R1_14

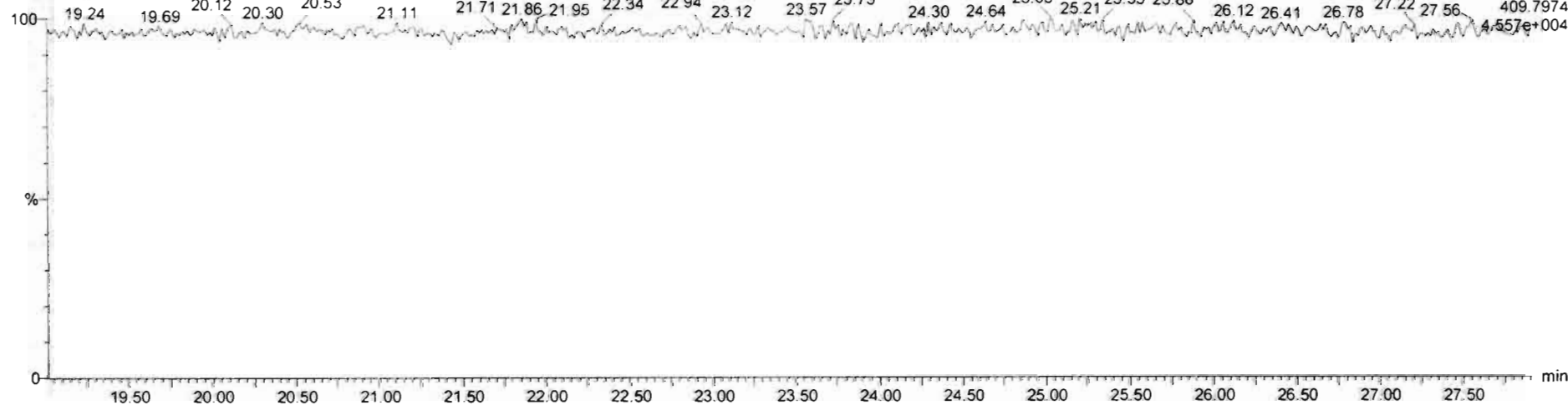


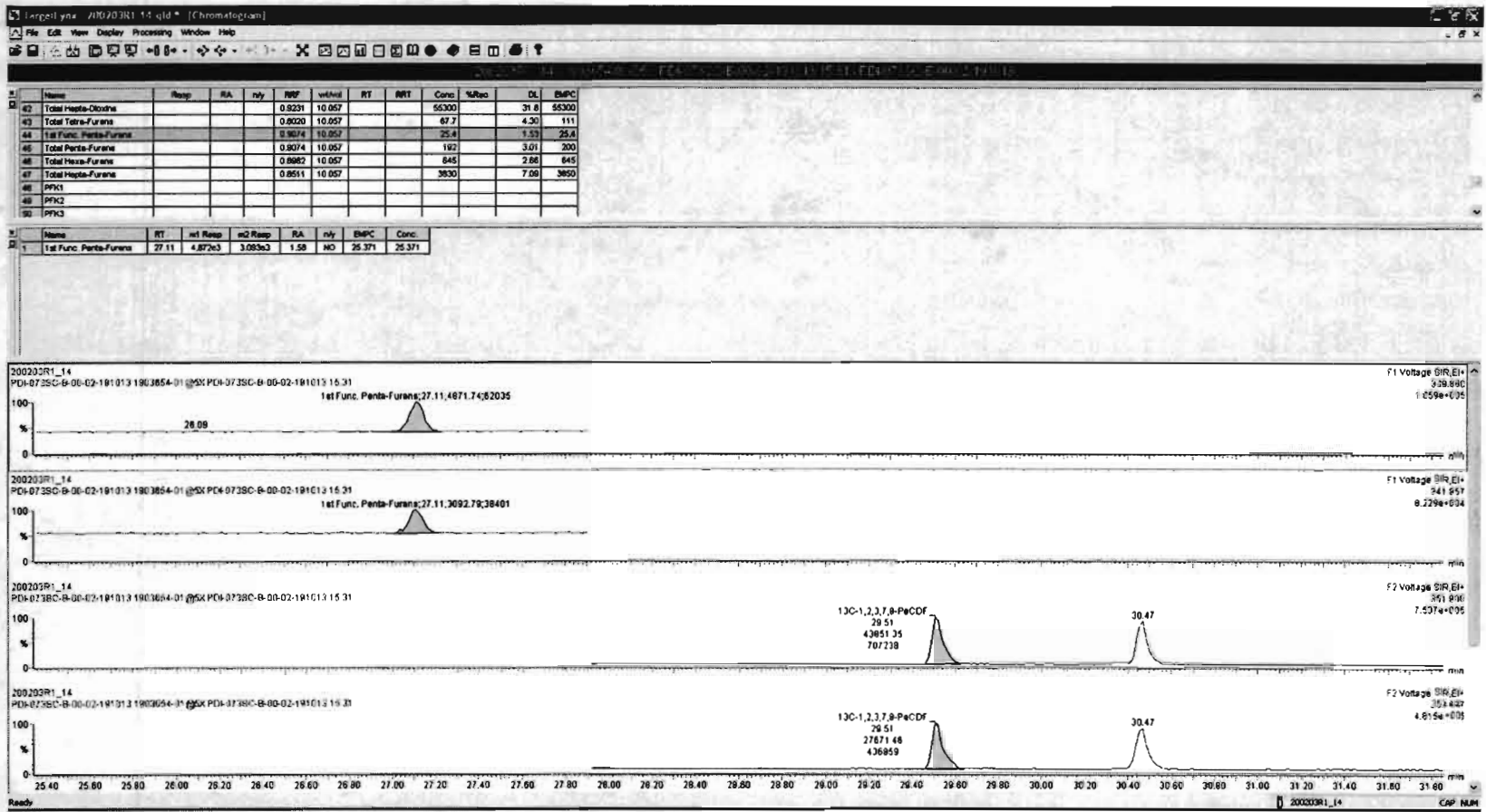
200203R1_14



DPE6

200203R1_14





Dataset: Untitled

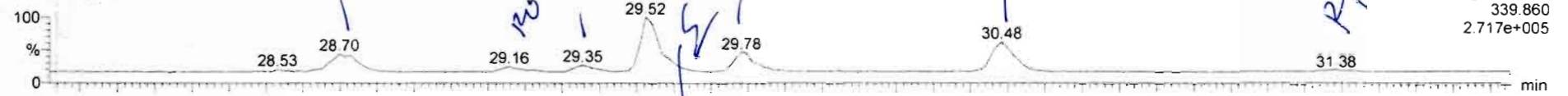
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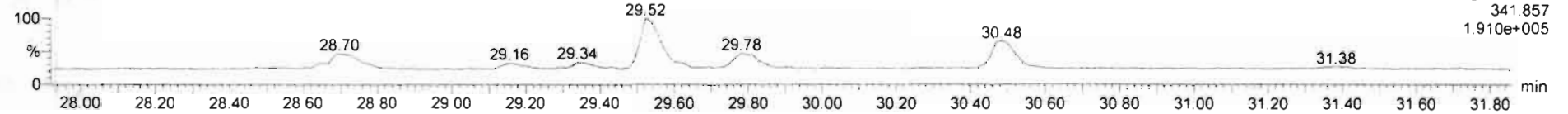
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1,2,3,7,8-PeCDF

200203R1_14

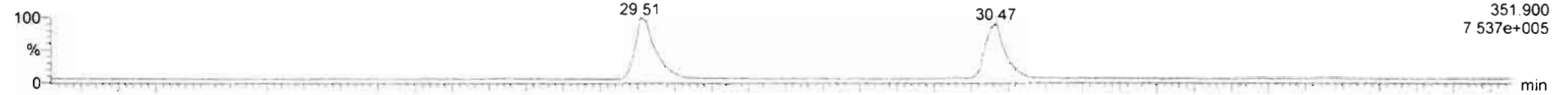


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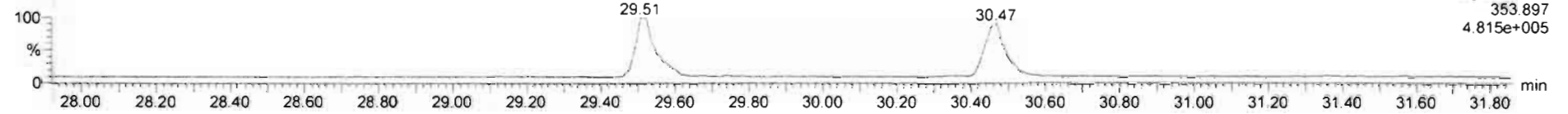


13C-1,2,3,7,8-PeCDF

200203R1_14

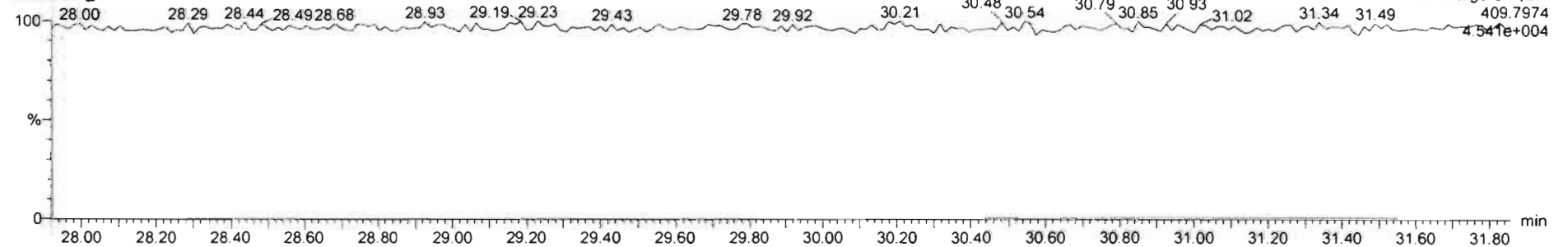


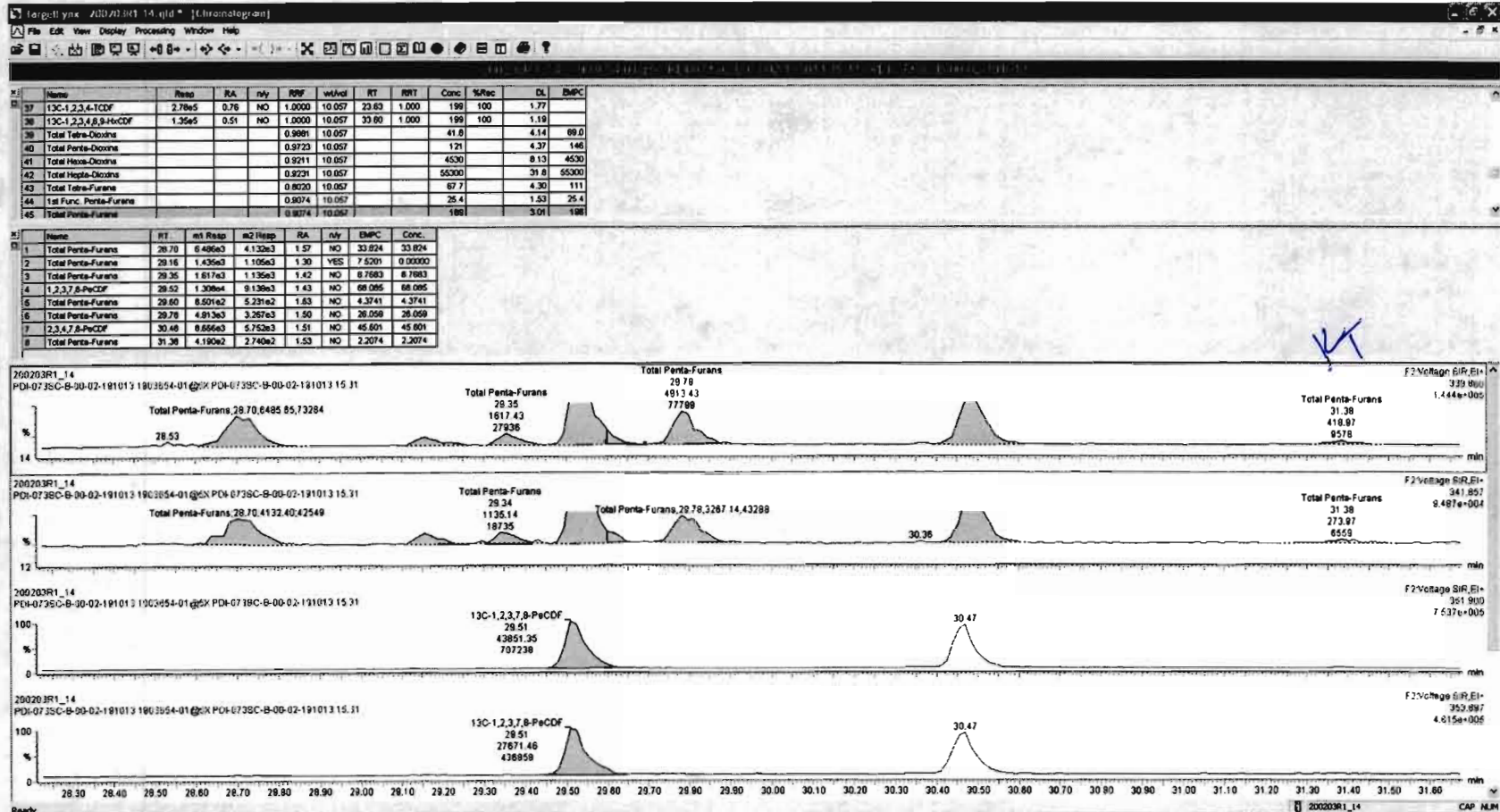
200203R1_14



DPE2

200203R1_14





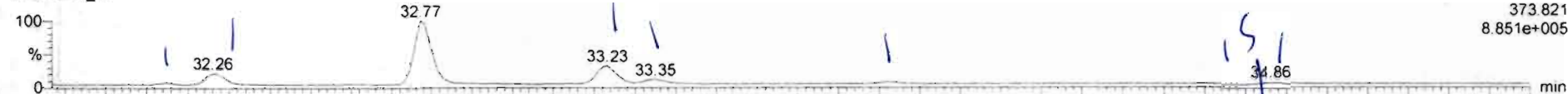
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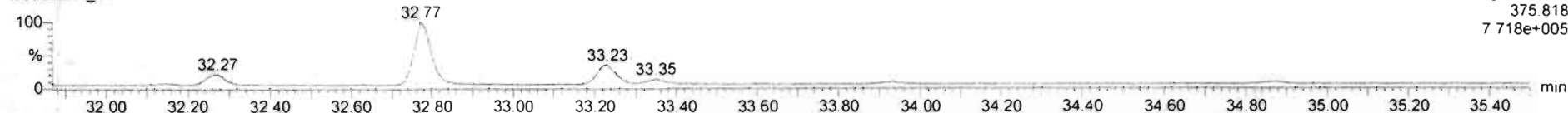
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1,2,3,4,7,8-HxCDF

200203R1_14

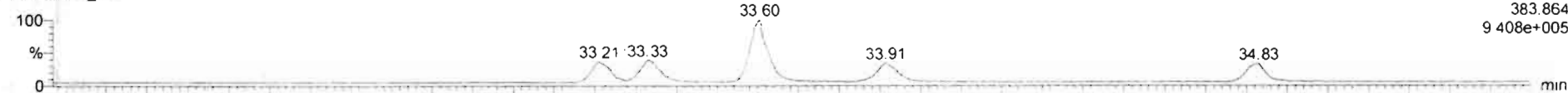


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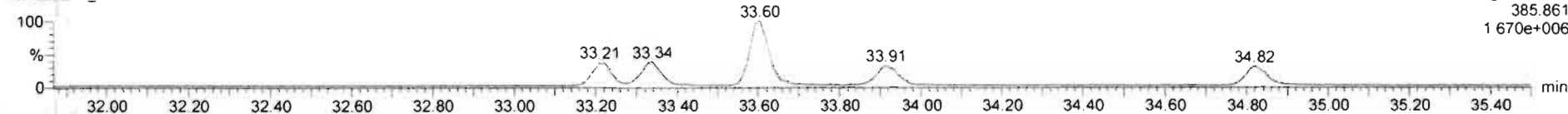


13C-1,2,3,4,7,8-HxCDF

200203R1_14

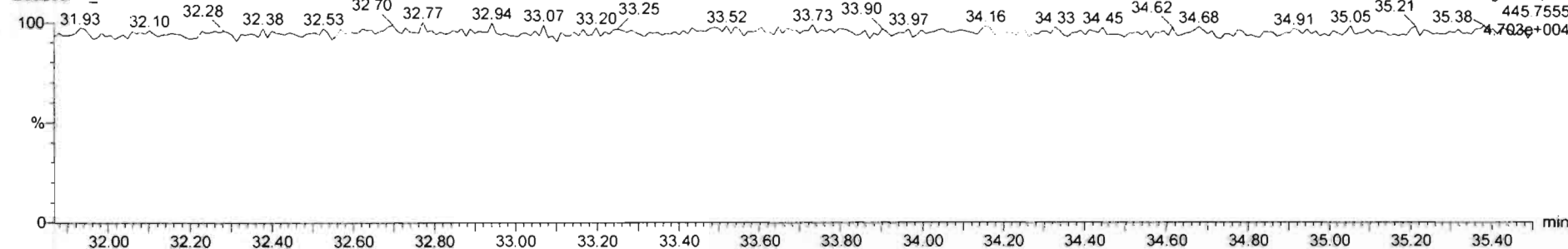


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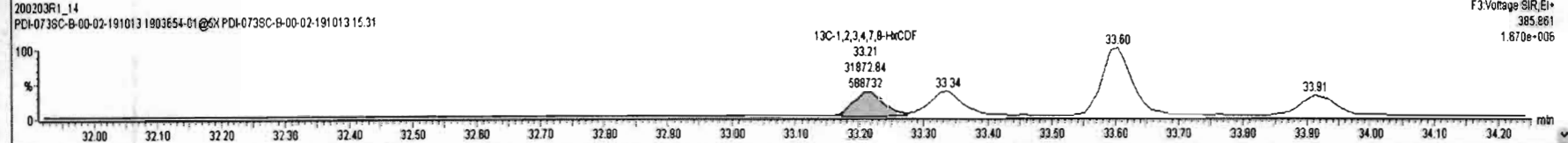
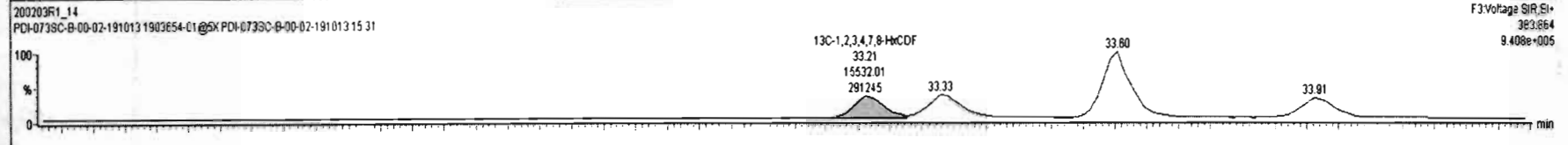
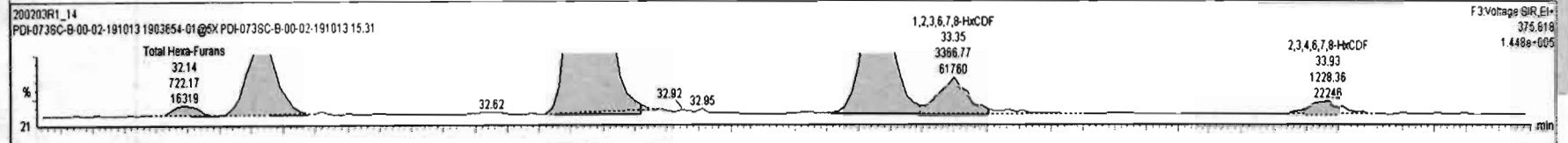
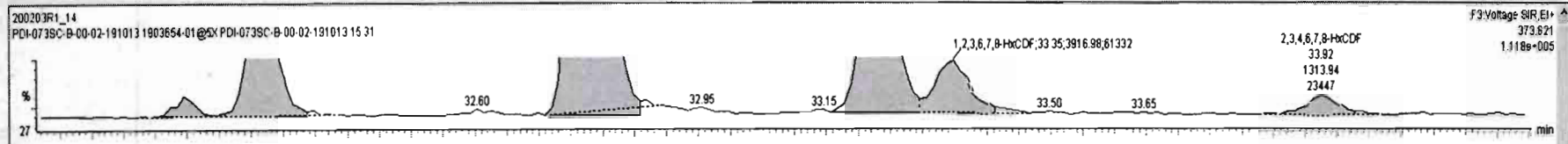
DPE3

200203R1_14



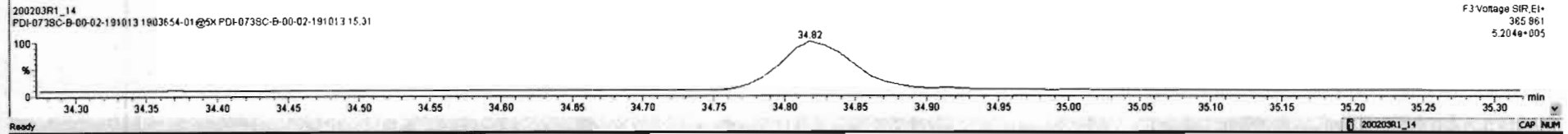
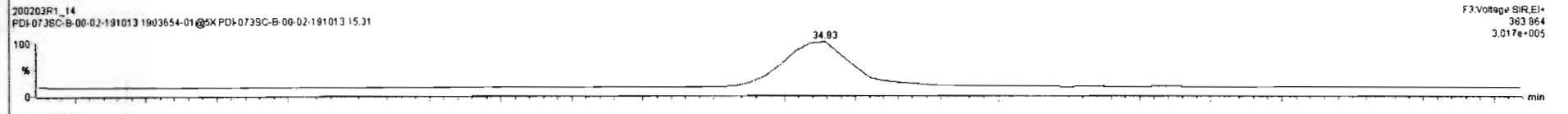
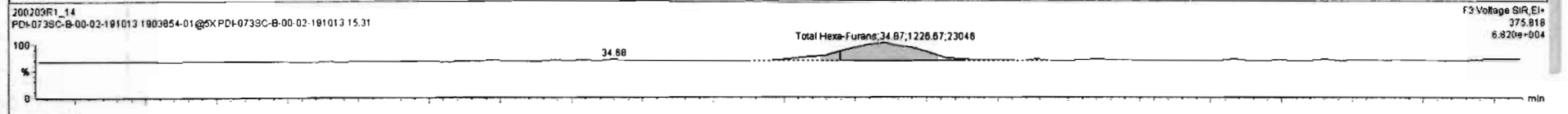
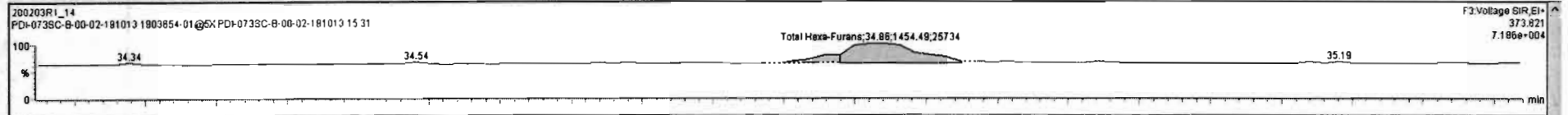
Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8982	10.057			644		2.86	644
47 Total Hepta-Furans				0.8511	10.057			3830		7.09	3850
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.14	8.316e2	7.222e2	1.15	NO	7.2864	7.2864
2 Total Hexa-Furans	32.26	7.784e3	6.580e3	1.18	NO	67.453	67.453
3 Total Hexa-Furans	32.77	4.430e4	3.778e4	1.17	NO	385.31	385.31
4 1,2,3,4,7,8-HxCDF	33.23	1.328e4	1.204e4	1.10	NO	123.24	123.24
5 1,2,3,6,7,8-HxCDF	33.35	3.917e3	3.367e3	1.16	NO	32.780	32.780
6 2,3,4,6,7,8-HxCDF	33.92	1.314e3	1.228e3	1.07	NO	12.201	12.201
7 1,2,3,7,8,9-HxCDF	34.83	2.553e2	2.371e2	1.08	NO	2.6837	2.6837
8 Total Hexa-Furans	34.86	1.454e3	1.227e3	1.19	NO	12.580	12.580



Name	Resp	RA	n/y	RRF	wt/Avl	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8902	10.057			644	2.96	644	
47 Total Hepta-Furans				0.8511	10.057			3630	7.09	3650	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.14	8.315e2	7.222e2	1.15	NO	7.2984	7.2984
2 Total Hexa-Furans	32.26	7.784e3	6.580e3	1.18	NO	67.453	67.453
3 Total Hexa-Furans	32.77	4.430e4	3.776e4	1.17	NO	385.31	385.31
4 1,2,3,4,7,8-HxCDF	33.23	1.329e4	1.204e4	1.10	NO	123.24	123.24
5 1,2,3,6,7,8-HxCDF	33.35	3.917e3	3.367e3	1.16	NO	32.780	32.780
6 2,3,4,6,7,8-HxCDF	33.92	1.314e3	1.228e3	1.07	NO	12.201	12.201
7 1,2,3,7,8,9-HxCDF	34.83	2.553e2	2.371e2	1.08	NO	2.6837	2.6837
8 Total Hexa-Furans	34.86	1.454e3	1.227e3	1.19	NO	12.590	12.590



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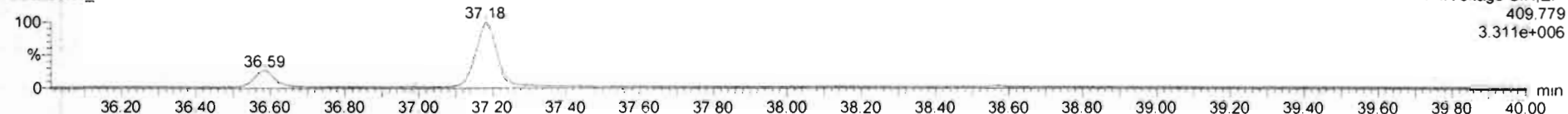
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1,2,3,4,6,7,8-HpCDF

200203R1_14



200203R1_14

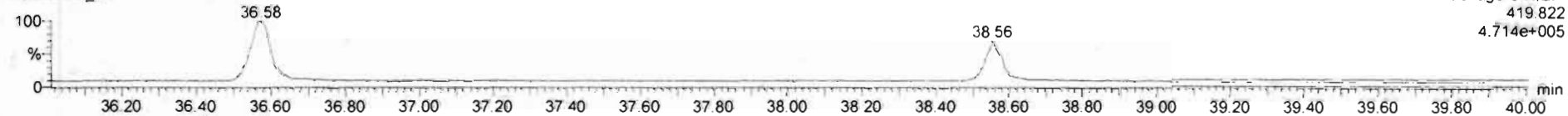


13C-1,2,3,4,6,7,8-HpCDF

200203R1_14

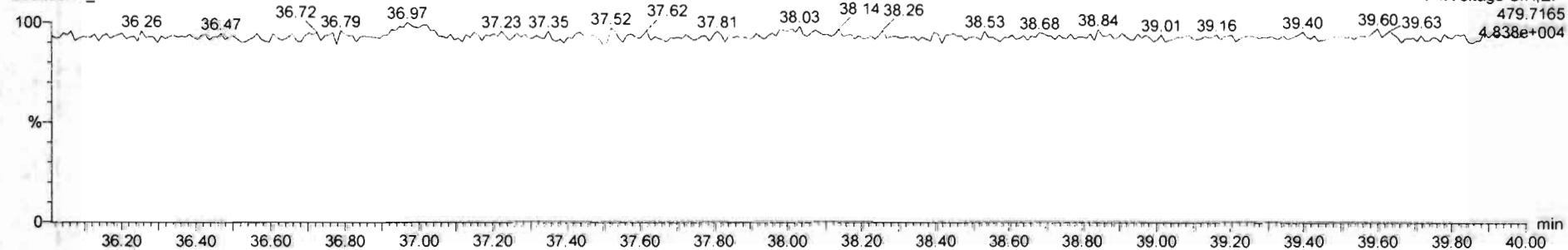


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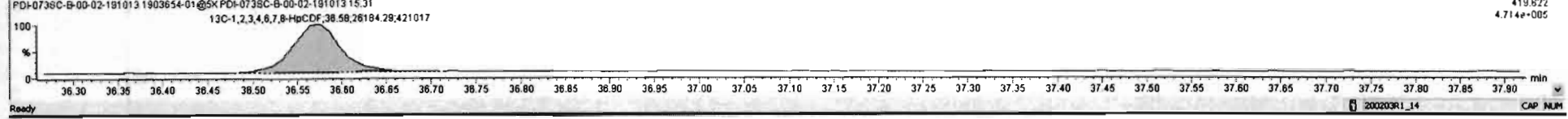
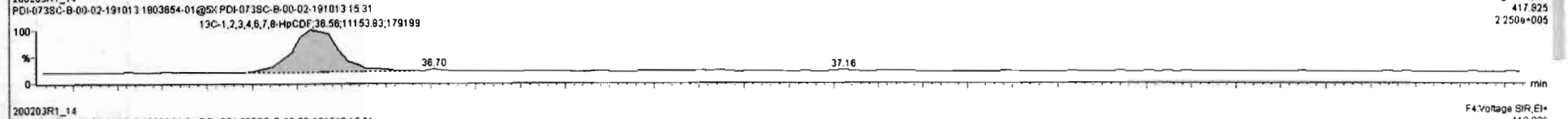
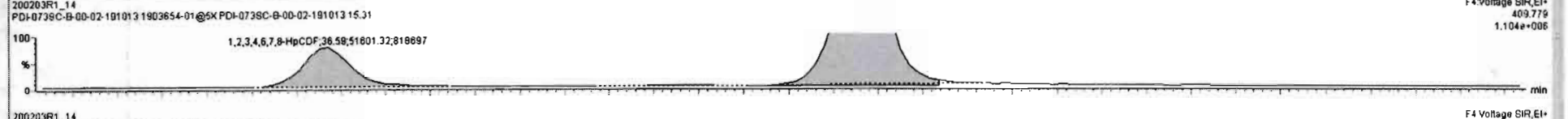
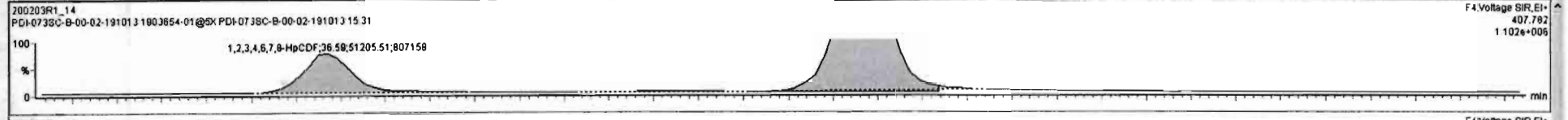
DPE4

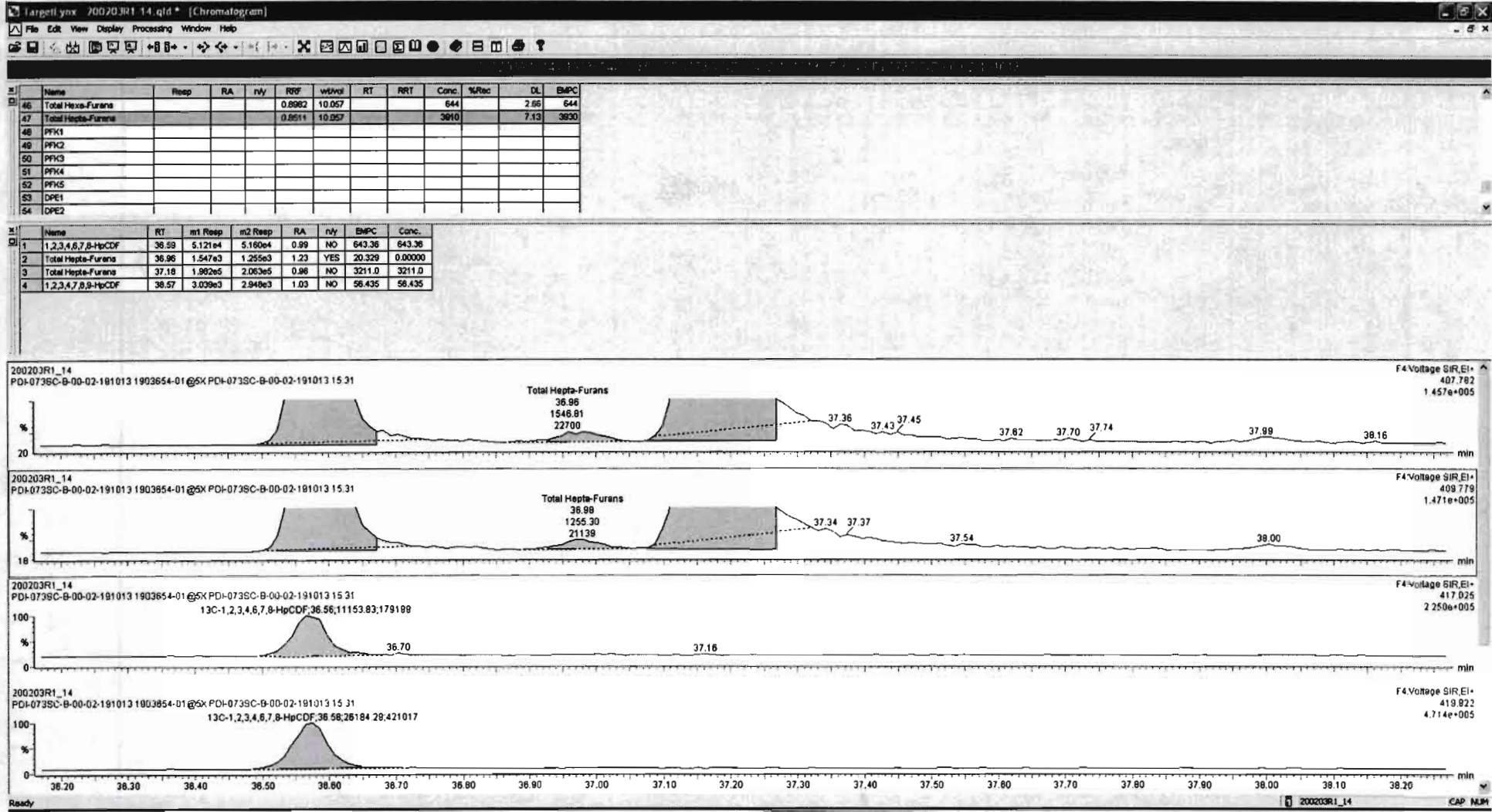
200203R1_14



Name	Resp	RA	rvy	RPF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8982	10.057			644		2.88	844
47 Total Hepta-Furans				0.8511	10.057			3810		7.13	3930
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

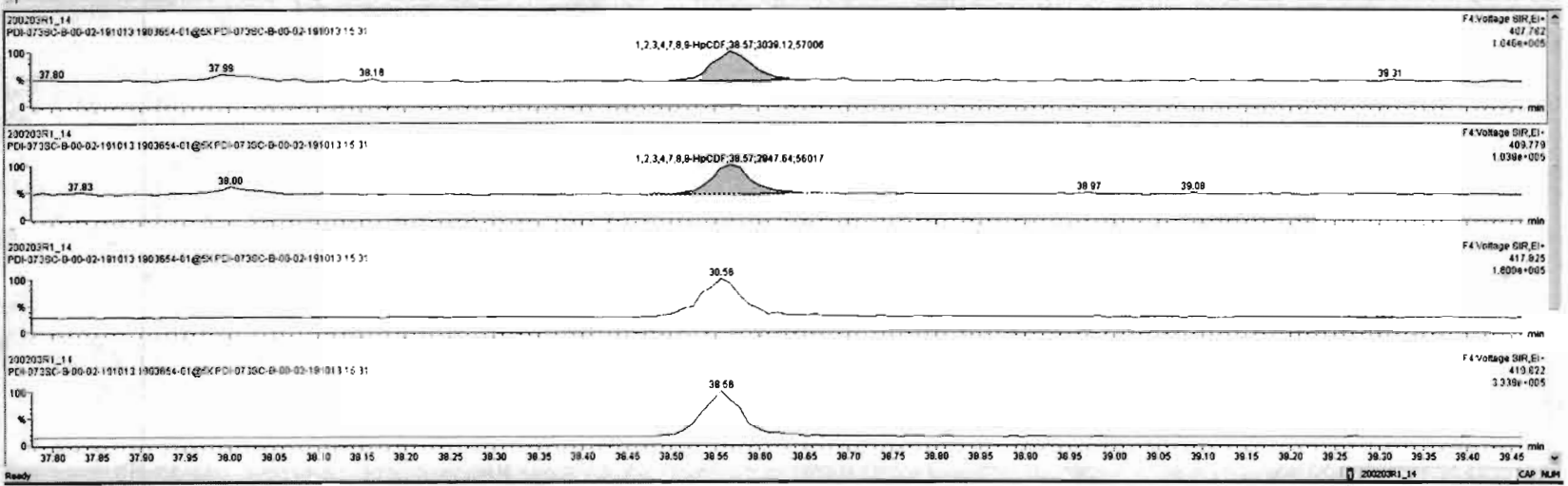
Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.59	5.121e4	5.160e4	0.99	NO	643.36	643.36
2 Total Hepta-Furans	36.96	1.547e3	1.255e3	1.23	YES	20.328	0.00000
3 Total Hepta-Furans	37.18	1.982e5	2.063e5	0.96	NO	3211.0	3211.0
4 1,2,3,4,7,8,9-HpCDF	38.57	3.039e3	2.946e3	1.03	NO	56.435	56.435





Name	Resp	RA	Adj	RSP	IntVal	RT	RRT	Conc	%Rec	CL	EMPC
46 Total Hepta-Furans				0.8982	10.057			844		2.98	844
47 Total Hepta-Furans				0.8811	10.067			910		7.13	910
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											

Name	RT	Int Resp	Int2 Resp	RA	Adj	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.59	5.121e4	5.160e4	0.99	NO	843.36	843.36
2 Total Hepta-Furans	36.86	1.547e3	1.255e3	1.23	YES	20.329	0.00000
3 Total Hepta-Furans	37.18	1.862e5	2.063e5	0.96	NO	3211.0	3211.0
4 1,2,3,4,7,8,9-HpCDF	38.57	2.029e3	2.949e3	1.03	NO	58.435	56.425

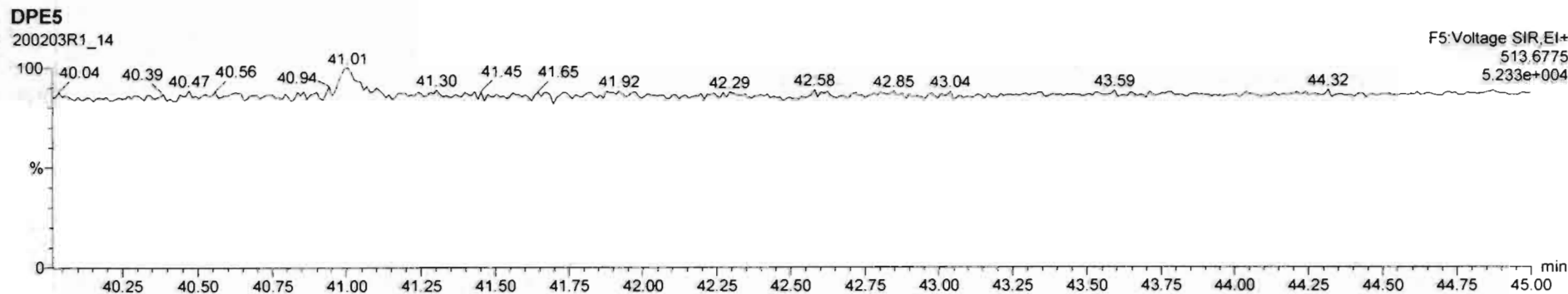
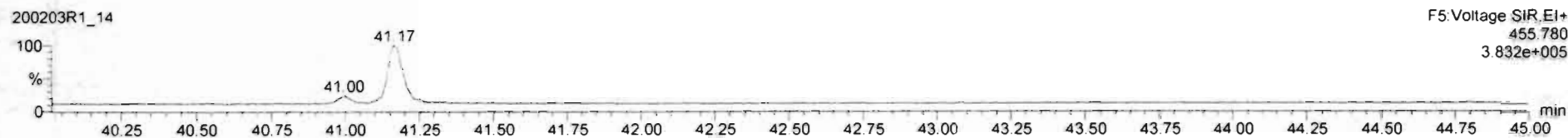
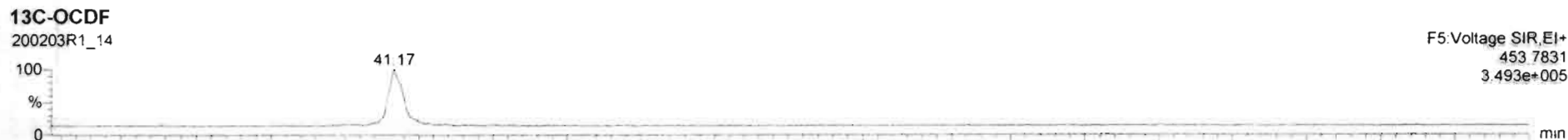
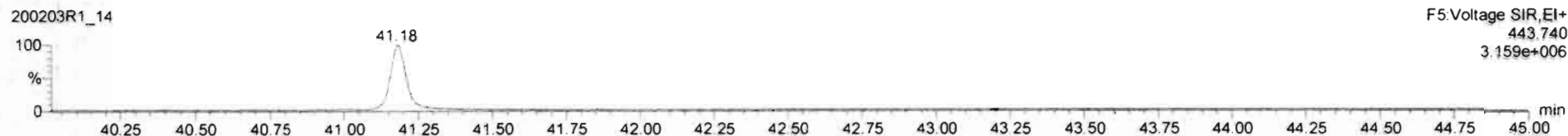
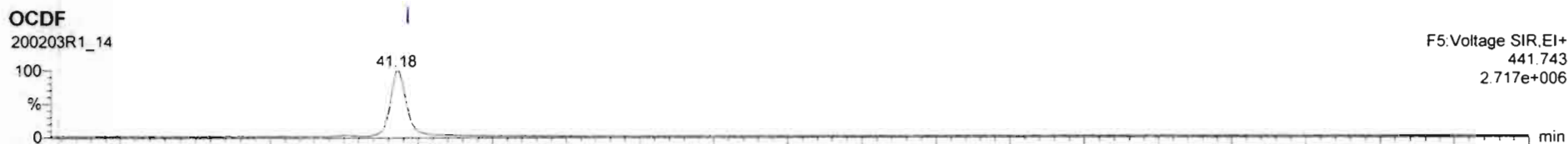


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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

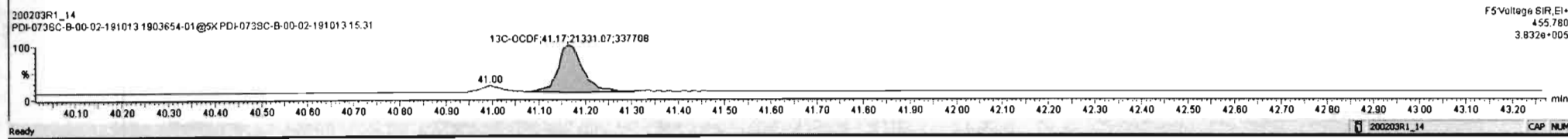
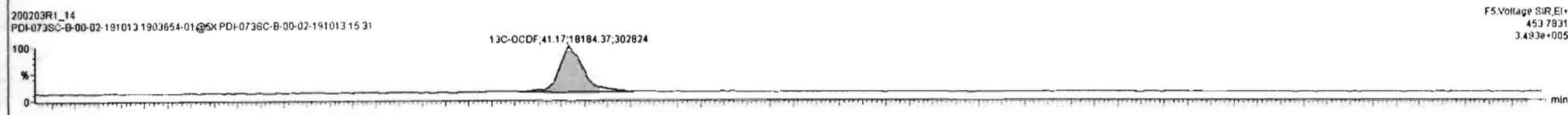
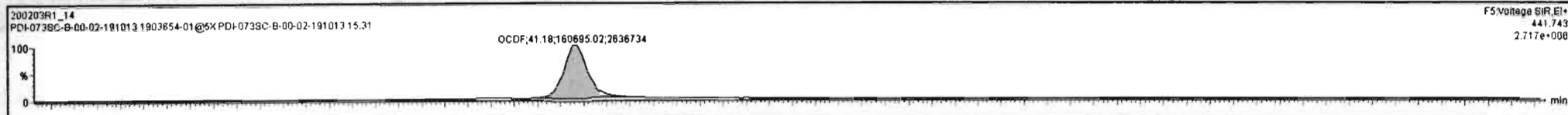
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
12 1,2,3,6,7,8-HxCDF	7.28e3	1.16	NO	0.8414	10.057	33.35	1.001	32.8		2.59	32.8
13 2,3,4,6,7,8-HxCDF	2.54e3	1.07	NO	0.8982	10.057	33.82	1.000	12.2		2.86	12.2
14 1,2,3,7,8,9-HxCDF	4.92e2	1.08	NO	0.8578	10.057	34.83	1.000	2.68		3.06	2.68
15 1,2,3,4,6,7,8-HpCDF	1.03e5	0.99	NO	0.8511	10.057	36.59	1.001	643		5.83	643
16 1,2,3,4,7,8,9-HpCDF	5.99e3	1.03	NO	0.9799	10.057	38.57	1.000	58.4		8.15	58.4
17 OCDF	3.52e5	0.84	NO	0.8055	10.057	41.18	1.000	4400		8.07	4400
18 13C-2,3,7,8-TCDD	3.49e4	0.78	NO	1.1985	10.057	25.90	1.025	30.8	15.5	1.22	
19 13C-1,2,3,7,8-PeCDD	5.25e4	0.65	NO	0.9667	10.057	30.74	1.217	57.5	28.9	1.15	
20 13C-1,2,3,4,7,8-HxCDD	3.42e4	1.26	NO	0.8739	10.057	34.07	1.014	57.8	29.0	1.27	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							

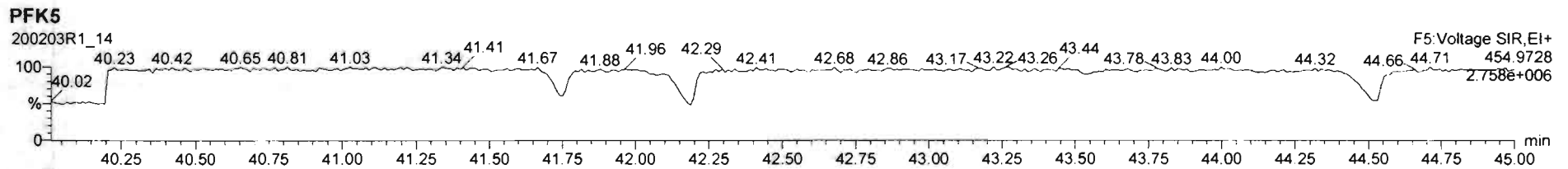
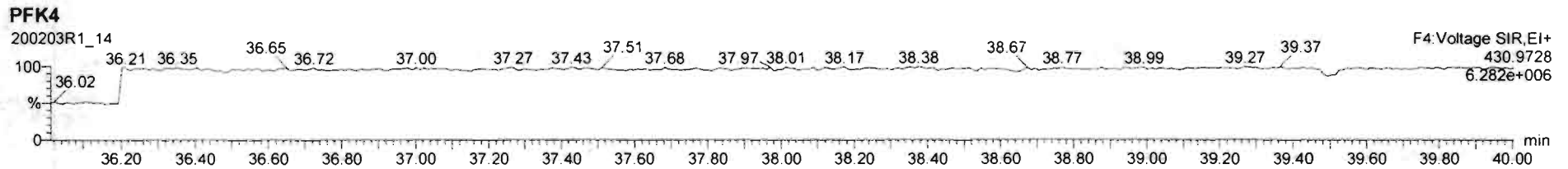
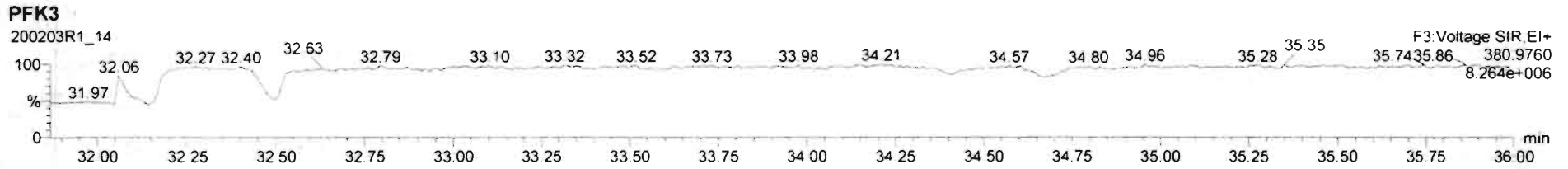
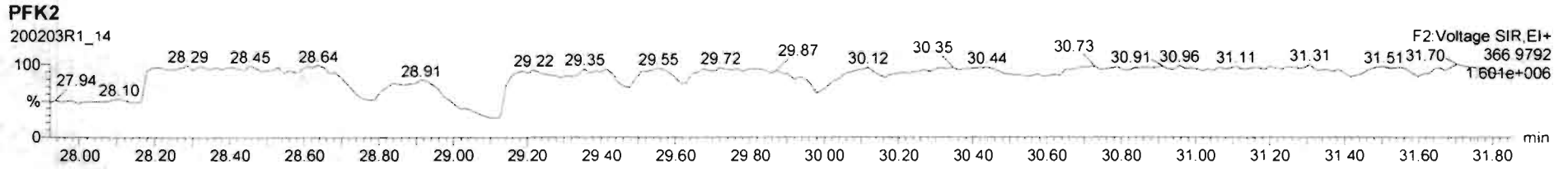
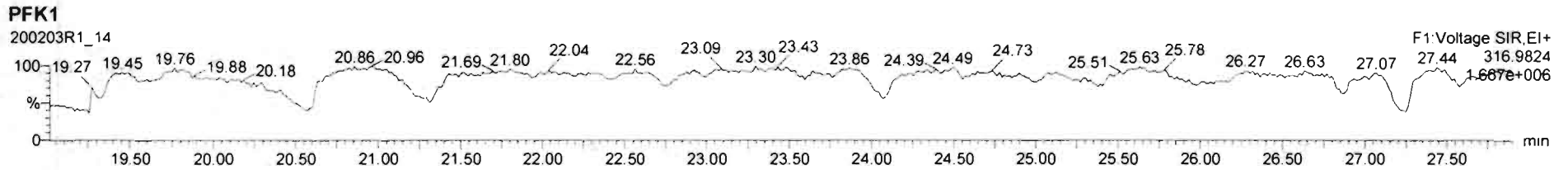


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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_14, Date: 03-Feb-2020, Time: 22:13:42, ID: 1903654-01@5X PDI-073SC-B-00-02-191013 15.31, Description: PDI-073SC-B-00-02-191013



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-7.qld

Last Altered: Saturday, February 08, 2020 12:27:16 Pacific Standard Time
Printed: Saturday, February 08, 2020 12:27:23 Pacific Standard Time

ht 2-8-2020

C7 02/13/2020

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_7, Date: 02-Feb-2020, Time: 15:05:54, ID: 1903654-02 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												<i>0.432</i>	
2	2 1,2,3,7,8-PeCDD	6.62e3	1.67	YES	0.972	10.098	30.734	30.74	1.001	1.001	1.7278		0.308	1.05
3	3 1,2,3,4,7,8-HxCDD	4.32e3	1.11	NO	1.07	10.098	34.072	34.07	1.000	1.000	1.2116		0.262	1.21
4	4 1,2,3,6,7,8-HxCDD	3.39e4	1.17	NO	0.921	10.098	34.168	34.19	1.000	1.001	10.873		0.312	10.9
5	5 1,2,3,7,8,9-HxCDD	1.17e4	1.25	NO	0.918	10.098	34.490	34.47	1.001	1.000	3.7224		0.299	3.72
6	6 1,2,3,4,6,7,8-HpCDD	1.44e6	1.02	NO	0.923	10.098	38.024	38.02	1.000	1.000	502.19		1.36	502
7	7 OCDD	7.90e6	0.88	NO	0.975	10.098	41.123	41.13	1.000	1.000	3826.0		1.07	3830
8	8 2,3,7,8-TCDF	1.21e4	0.79	NO	0.802	10.098	25.042	25.03	1.001	1.001	3.1123 (2.79)		0.343	3.11
9	9 1,2,3,7,8-PeCDF	1.45e4	1.45	NO	0.907	10.098	29.498	29.49	1.001	1.001	2.8585		0.510	2.86
10	10 2,3,4,7,8-PeCDF	1.06e4	1.58	NO	0.952	10.098	30.456	30.45	1.001	1.000	2.0751		0.491	2.08
11	11 1,2,3,4,7,8-HxCDF	1.72e4	1.17	NO	0.862	10.098	33.199	33.22	1.000	1.001	6.3236		0.364	6.32
12	12 1,2,3,6,7,8-HxCDF	9.02e3	1.18	NO	0.841	10.098	33.326	33.33	1.000	1.000	2.7365		0.306	2.74
13	13 2,3,4,6,7,8-HxCDF	1.42e4	1.19	NO	0.898	10.098	33.936	33.91	1.001	1.000	3.9579		0.293	3.96
14	14 1,2,3,7,8,9-HxCDF	6.23e2	1.40	NO	0.858	10.098	34.807	34.82	1.000	1.000	0.20968		0.335	0.210
15	15 1,2,3,4,6,7,8-HpCDF	1.99e5	0.98	NO	0.851	10.098	36.612	36.60	1.001	1.001	78.528		0.481	78.5
16	16 1,2,3,4,7,8,9-HpCDF	6.90e3	0.90	NO	0.980	10.098	38.588	38.59	1.000	1.000	3.4642		0.536	3.46
17	17 OCDF	4.87e5	0.85	NO	0.806	10.098	41.304	41.31	1.000	1.000	272.82		0.443	273
18	18 13C-2,3,7,8-TCDD	8.63e5	0.80	NO	1.20	10.098	25.874	25.90	1.026	1.027	97.905	49.4	0.419	
19	19 13C-1,2,3,7,8-PeCDD	7.81e5	0.63	NO	0.967	10.098	30.650	30.71	1.215	1.218	109.79	55.4	0.297	
20	20 13C-1,2,3,4,7,8-HxCDD	6.60e5	1.25	NO	0.874	10.098	34.063	34.06	1.014	1.014	115.22	58.2	0.249	
21	21 13C-1,2,3,6,7,8-HxCDD	6.71e5	1.26	NO	1.05	10.098	34.164	34.17	1.017	1.017	97.840	49.4	0.208	
22	22 13C-1,2,3,7,8,9-HxCDD	6.79e5	1.24	NO	0.974	10.098	34.466	34.46	1.026	1.026	106.28	53.7	0.223	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.13e5	1.01	NO	0.747	10.098	38.027	38.01	1.132	1.132	125.21	63.2	0.332	
24	24 13C-OCDD	8.39e5	0.89	NO	0.707	10.098	40.916	41.12	1.218	1.224	181.16	45.7	0.203	
25	25 13C-2,3,7,8-TCDF	9.59e5	0.77	NO	1.07	10.098	25.049	25.02	0.993	0.992	86.876	43.9	0.519	
26	26 13C-1,2,3,7,8-PeCDF	1.11e6	1.57	NO	1.00	10.098	29.414	29.48	1.166	1.169	106.94	54.0	0.404	
27	27 13C-2,3,4,7,8-PeCDF	1.06e6	1.56	NO	0.962	10.098	30.372	30.44	1.204	1.207	106.79	53.9	0.420	
28	28 13C-1,2,3,4,7,8-HxCDF	6.25e5	0.51	NO	1.05	10.098	33.190	33.20	0.988	0.988	90.813	45.9	0.266	
29	29 13C-1,2,3,6,7,8-HxCDF	7.76e5	0.51	NO	1.19	10.098	33.291	33.32	0.991	0.992	99.441	50.2	0.235	
30	30 13C-2,3,4,6,7,8-HxCDF	7.93e5	0.51	NO	1.07	10.098	33.899	33.90	1.009	1.009	113.40	57.3	0.262	
31	31 13C-1,2,3,7,8,9-HxCDF	6.86e5	0.51	NO	0.922	10.098	34.802	34.81	1.036	1.036	113.51	57.3	0.303	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-7.qld

Last Altered: Saturday, February 08, 2020 12:27:16 Pacific Standard Time

Printed: Saturday, February 08, 2020 12:27:23 Pacific Standard Time

Name: 200202R1_7, Date: 02-Feb-2020, Time: 15:05:54, ID: 1903654-02 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.90e5	0.43	NO	0.767	10.098	36.549	36.58	1.088	1.089	117.33	59.2	0.305	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.02e5	0.43	NO	0.552	10.098	38.565	38.59	1.148	1.149	111.15	56.1	0.423	
34	34 13C-OCDF	8.78e5	0.89	NO	0.789	10.098	41.151	41.30	1.225	1.230	169.75	42.9	0.207	
35	35 37Cl-2,3,7,8-TCDD	3.84e5			1.18	10.098	25.907	25.92	1.027	1.027	44.333	56.0	0.194	
36	36 13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.00	10.098	25.080	25.23	1.000	1.000	198.06	100	0.502	
37	37 13C-1,2,3,4-TCDF	2.05e6	0.78	NO	1.00	10.098	23.420	23.67	1.000	1.000	198.06	100	0.553	
38	38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	10.098	33.520	33.59	1.000	1.000	198.06	100	0.280	
39	39 Total Tetra-Dioxins				0.988	10.098	24.620		0.000		3.1661		0.432	3.17
40	40 Total Penta-Dioxins				0.972	10.098	29.960		0.000		10.968		0.303	16.9
41	41 Total Hexa-Dioxins				0.921	10.098	33.635		0.000		141.39		0.305	143
42	42 Total Hepta-Dioxins				0.923	10.098	37.640		0.000		1127.7		1.36	1130
43	43 Total Tetra-Furans				0.802	10.098	23.610		0.000		54.516		0.343	56.2
44	44 1st Func. Penta-Furans				0.907	10.098	27.090		0.000		43.925		0.106	43.9
45	45 Total Penta-Furans				0.907	10.098	29.275		0.000		18.118		0.513	40.3
46	46 Total Hexa-Furans				0.898	10.098	33.555		0.000		96.006		0.310	96.0
47	47 Total Hepta-Furans				0.851	10.098	37.835		0.000		291.62		0.536	292

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Dataset: U:\VG12.PRO\Results\200202R1\200202R1-7.qld

Last Altered: Saturday, February 08, 2020 12:27:16 Pacific Standard Time

Printed: Saturday, February 08, 2020 12:27:23 Pacific Standard Time

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_7, Date: 02-Feb-2020, Time: 15:05:54, ID: 1903654-02 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.11	2.429e4	2.989e4	2.375e3	2.954e3	0.80	NO	5.329e3	1.2372	1.2372	0.432
2	Total Tetra-Dioxins	24.16	1.931e4	2.681e4	8.510e2	1.154e3	0.74	NO	2.005e3	0.46540	0.46540	0.432
3	Total Tetra-Dioxins	24.24	3.102e4	3.095e4	1.710e3	2.084e3	0.82	NO	3.793e3	0.88071	0.88071	0.432
4	Total Tetra-Dioxins	26.23	2.237e4	2.526e4	1.034e3	1.476e3	0.70	NO	2.510e3	0.58282	0.58282	0.432

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.58	1.140e5	1.563e5	8.033e3	1.147e4	0.70	NO	1.950e4	5.0875	5.0875	0.303
2	Total Penta-Dioxins	29.05	2.752e4	4.521e4	1.845e3	2.634e3	0.70	NO	4.479e3	1.1685	1.1685	0.303
3	Total Penta-Dioxins	29.54	9.603e4	1.544e5	5.654e3	8.426e3	0.67	NO	1.408e4	3.6730	3.6730	0.303
4	Total Penta-Dioxins	29.69	4.642e4	6.671e4	2.536e3	3.500e3	0.72	YES	0.000e0	0.00000	1.4882	0.303
5	Total Penta-Dioxins	29.80	2.815e4	4.353e4	1.480e3	2.504e3	0.59	NO	3.983e3	1.0391	1.0391	0.303
6	Total Penta-Dioxins	30.04	4.062e4	5.951e4	3.689e3	4.710e3	0.78	YES	0.000e0	0.00000	2.0027	0.303
7	1,2,3,7,8-PeCDD	30.74	8.749e4	5.361e4	4.145e3	2.478e3	1.67	YES	6.623e3	0.00000	1.0537	0.303
8	Total Penta-Dioxins	30.79	8.992e4	3.086e4	6.134e3	1.797e3	3.41	YES	0.000e0	0.00000	0.76417	0.303
9	Total Penta-Dioxins	31.11	1.979e4	2.314e4	1.168e3	1.513e3	0.77	YES	0.000e0	0.00000	0.64348	0.303

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.59	2.059e6	1.787e6	1.033e5	8.403e4	1.23	NO	1.874e5	60.148	60.148	0.305
2	Total Hexa-Dioxins	33.15	1.826e5	1.578e5	9.361e3	7.741e3	1.21	NO	1.710e4	5.4901	5.4901	0.305
3	Total Hexa-Dioxins	33.40	1.420e6	1.179e6	9.875e4	8.167e4	1.21	NO	1.804e5	57.915	57.915	0.305
4	Total Hexa-Dioxins	33.52	7.036e4	5.892e4	4.024e3	2.727e3	1.48	YES	0.000e0	0.00000	1.9606	0.305
5	1,2,3,4,7,8-HxCDD	34.07	4.184e4	3.796e4	2.272e3	2.051e3	1.11	NO	4.323e3	1.2116	1.2116	0.262
6	1,2,3,6,7,8-HxCDD	34.19	3.203e5	2.719e5	1.826e4	1.565e4	1.17	NO	3.391e4	10.873	10.873	0.312
7	Total Hexa-Dioxins	34.38	7.459e4	5.701e4	3.501e3	2.827e3	1.24	NO	6.328e3	2.0314	2.0314	0.305
8	1,2,3,7,8,9-HxCDD	34.47	1.151e5	9.094e4	6.506e3	5.208e3	1.25	NO	1.171e4	3.7224	3.7224	0.299

Quantify Totals Report MassLynx 4.1 SCN815

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Dataset: U:\VG12.PRO\Results\200202R1\200202R1-7.qld

Last Altered: Saturday, February 08, 2020 12:27:16 Pacific Standard Time

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Name: 200202R1_7, Date: 02-Feb-2020, Time: 15:05:54, ID: 1903654-02 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.98	1.188e7	1.174e7	9.008e5	8.870e5	1.02	NO	1.788e6	625.50	625.50	1.36
2	1,2,3,4,6,7,8-HpCDD	38.02	9.570e6	9.430e6	7.247e5	7.106e5	1.02	NO	1.435e6	502.19	502.19	1.36

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.45	7.793e4	1.149e5	6.715e3	8.801e3	0.76	NO	1.552e4	3.9947	3.9947	0.343
2	Total Tetra-Furans	21.13	3.611e5	4.710e5	2.598e4	3.567e4	0.73	NO	6.165e4	15.872	15.872	0.343
3	Total Tetra-Furans	21.56	2.397e4	3.106e4	2.577e3	3.126e3	0.82	NO	5.703e3	1.4682	1.4682	0.343
4	Total Tetra-Furans	21.66	1.544e4	2.222e4	1.440e3	2.153e3	0.67	NO	3.593e3	0.92504	0.92504	0.343
5	Total Tetra-Furans	22.07	5.238e4	8.495e4	5.871e3	8.308e3	0.71	NO	1.418e4	3.6503	3.6503	0.343
6	Total Tetra-Furans	22.68	6.438e4	7.563e4	7.922e3	1.102e4	0.72	NO	1.895e4	4.8777	4.8777	0.343
7	Total Tetra-Furans	22.91	3.091e4	3.712e4	1.161e3	1.447e3	0.80	NO	2.608e3	0.67141	0.67141	0.343
8	Total Tetra-Furans	23.44	3.344e4	5.215e4	3.536e3	5.188e3	0.68	NO	8.725e3	2.2461	2.2461	0.343
9	Total Tetra-Furans	23.64	1.773e5	2.504e5	1.561e4	2.100e4	0.74	NO	3.661e4	9.4263	9.4263	0.343
10	Total Tetra-Furans	24.19	1.638e5	2.520e5	5.655e3	7.488e3	0.76	NO	1.314e4	3.3837	3.3837	0.343
11	Total Tetra-Furans	24.58	2.338e4	1.963e4	1.291e3	1.402e3	0.92	YES	0.000e0	0.00000	0.63879	0.343
12	Total Tetra-Furans	24.79	2.422e4	3.045e4	1.723e3	2.671e3	0.65	YES	0.000e0	0.00000	1.0199	0.343
13	Total Tetra-Furans	24.93	3.176e4	4.525e4	2.415e3	3.310e3	0.73	NO	5.725e3	1.4738	1.4738	0.343
14	2,3,7,8-TCDF	25.03	8.090e4	9.800e4	5.348e3	6.741e3	0.79	NO	1.209e4	3.1123	3.1123	0.343
15	Total Tetra-Furans	25.41	3.659e4	4.798e4	2.197e3	2.719e3	0.81	NO	4.916e3	1.2656	1.2656	0.343
16	Total Tetra-Furans	26.45	2.538e4	3.657e4	1.921e3	2.279e3	0.84	NO	4.200e3	1.0812	1.0812	0.343
17	Total Tetra-Furans	26.65	3.386e4	3.717e4	1.834e3	2.312e3	0.79	NO	4.146e3	1.0674	1.0674	0.343

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.04	2.070e6	1.267e6	1.335e5	8.528e4	1.57	NO	2.188e5	43.925	43.925	0.106

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.39	6.292e4	5.622e4	4.968e3	3.758e3	1.32	NO	0.000e0	0.00000	1.7515	0.513
2	Total Penta-Furans	28.53	5.821e5	3.963e5	4.507e4	3.023e4	1.49	NO	0.000e0	0.00000	15.115	0.513
3	Total Penta-Furans	29.10	4.617e5	2.816e5	2.849e4	1.750e4	1.63	NO	4.599e4	9.2314	9.2314	0.513
4	Total Penta-Furans	29.31	4.201e4	2.598e4	2.194e3	1.507e3	1.46	NO	3.701e3	0.74283	0.74283	0.513
5	1,2,3,7,8-PeCDF	29.49	1.912e5	1.225e5	8.605e3	5.935e3	1.45	NO	1.454e4	2.8585	2.8585	0.510
6	Total Penta-Furans	29.75	1.688e5	1.201e5	9.429e3	6.562e3	1.44	NO	1.599e4	3.2100	3.2100	0.513
7	2,3,4,7,8-PeCDF	30.45	2.929e5	1.952e5	6.505e3	4.108e3	1.58	NO	1.061e4	2.0751	2.0751	0.491
8	Total Penta-Furans	30.47	3.588e5	2.307e5	1.597e4	1.027e4	1.55	NO	0.000e0	0.00000	5.2684	0.513

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.08	3.017e5	2.912e5	1.543e4	1.352e4	1.14	NO	2.895e4	8.8712	8.8712	0.310
2	Total Hexa-Furans	32.22	1.053e6	8.816e5	4.819e4	4.099e4	1.18	NO	8.918e4	27.324	27.324	0.310
3	Total Hexa-Furans	32.57	2.124e4	1.667e4	9.282e2	8.461e2	1.10	NO	1.774e3	0.54363	0.54363	0.310
4	Total Hexa-Furans	32.76	1.609e6	1.385e6	7.780e4	6.693e4	1.16	NO	1.447e5	44.344	44.344	0.310
5	Total Hexa-Furans	33.11	1.501e4	1.291e4	7.273e2	6.180e2	1.18	NO	1.345e3	0.41218	0.41218	0.310
6	1,2,3,4,7,8-HxCDF	33.22	1.759e5	1.629e5	9.288e3	7.906e3	1.17	NO	1.719e4	6.3236	6.3236	0.364
7	1,2,3,6,7,8-HxCDF	33.33	9.347e4	7.884e4	4.877e3	4.139e3	1.18	NO	9.016e3	2.7365	2.7365	0.306
8	2,3,4,6,7,8-HxCDF	33.91	1.412e5	1.230e5	7.738e3	6.487e3	1.19	NO	1.422e4	3.9579	3.9579	0.293
9	1,2,3,7,8,9-HxCDF	34.82	1.692e4	1.217e4	3.632e2	2.600e2	1.40	NO	6.232e2	0.20968	0.20968	0.335
10	Total Hexa-Furans	34.85	4.759e4	3.657e4	2.275e3	1.912e3	1.19	NO	4.187e3	1.2828	1.2828	0.310

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.60	1.390e6	1.405e6	9.866e4	1.004e5	0.98	NO	1.991e5	78.528	78.528	0.481
2	Total Hepta-Furans	37.19	2.793e6	2.867e6	2.214e5	2.256e5	0.98	NO	4.470e5	209.62	209.62	0.536
3	1,2,3,4,7,8,9-HpCDF	38.59	5.628e4	6.116e4	3.266e3	3.630e3	0.90	NO	6.897e3	3.4642	3.4642	0.536

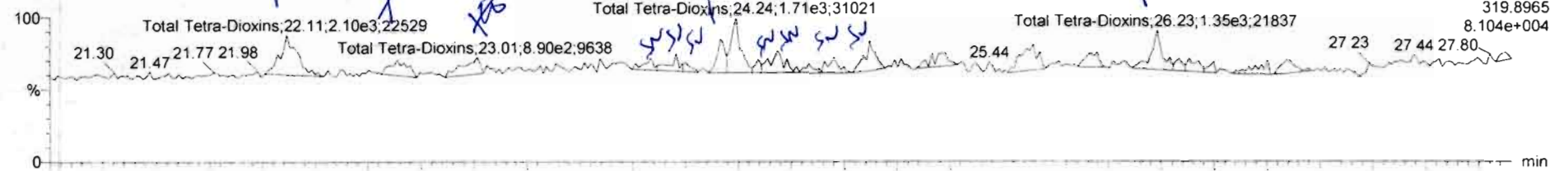
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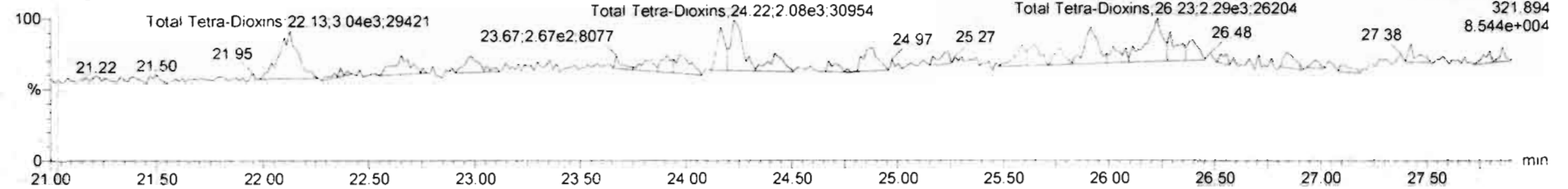
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2,3,7,8-TCDD

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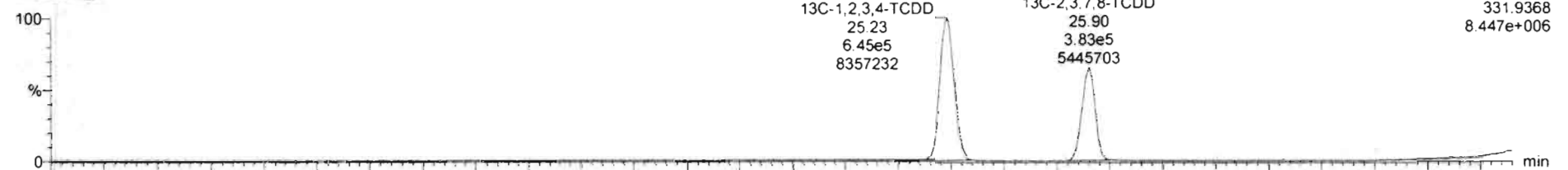


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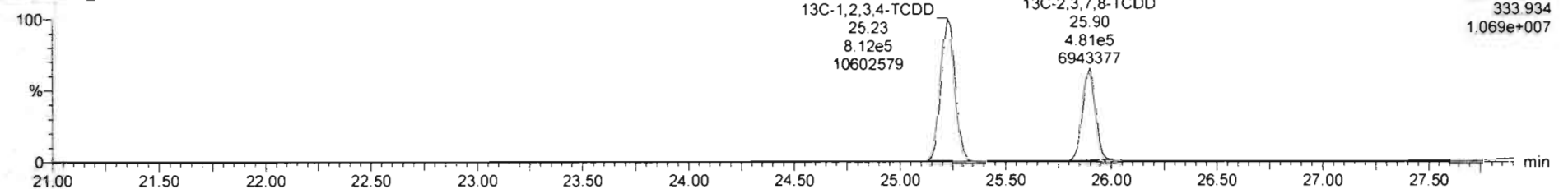


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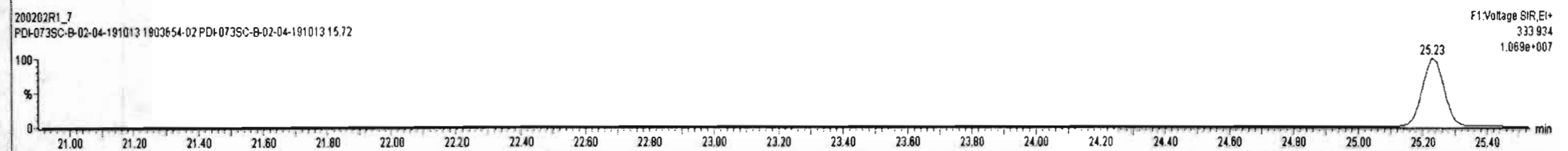
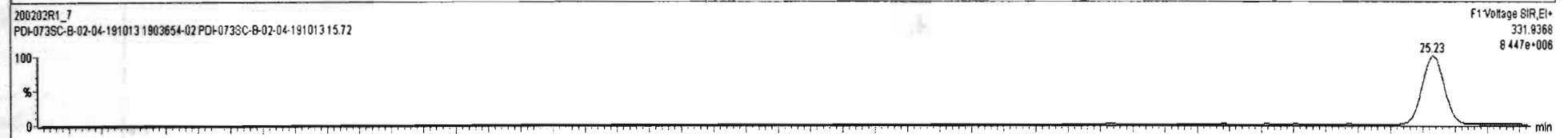
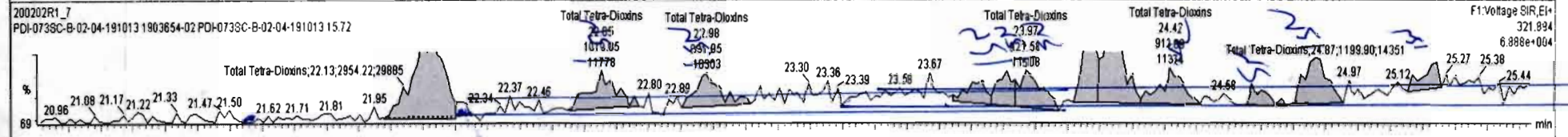
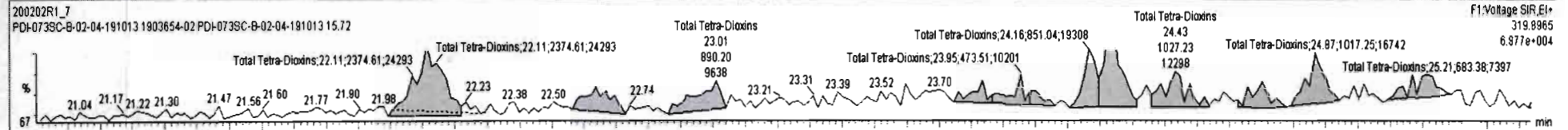


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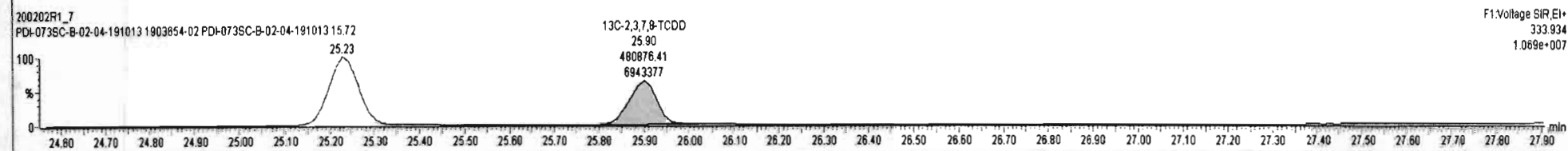
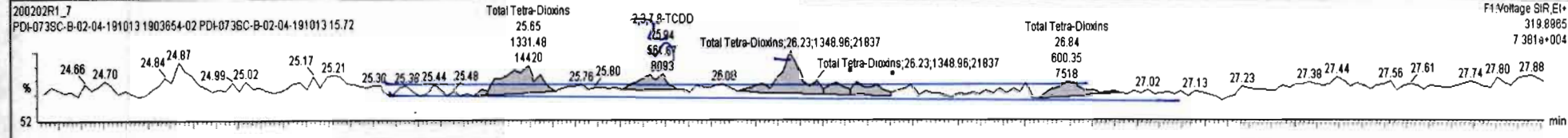
#	Name	Resp	RA	n/y	RRF	wUrol	RT	RRT	Conc.	%Rec	DL	EMPC
34	13C-OCDF	8.78e5	0.89	NO	0.7894	10.098	41.30	1.230	170	42.9	0.207	
35	37Cl-2,3,7,8-TCDD	3.84e5			1.1763	10.098	25.82	1.027	44.3	56.0	0.194	
36	13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.0000	10.098	25.23	1.000	198	100	0.502	
37	13C-1,2,3,4-TCDF	2.05e6	0.78	NO	1.0000	10.098	23.67	1.000	198	100	0.553	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.0000	10.098	33.59	1.000	198	100	0.280	
39	Total Tetra-Dioxins				0.9881	10.098			374		0.432	7.14
40	Total Penta-Dioxins				0.9723	10.098			11.7		0.303	16.9
41	Total Hexa-Dioxins				0.9211	10.098			141		0.305	143
42	Total Hepta-Dioxins				0.9231	10.098			1130		1.36	1130

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	22.11	2.375e3	2.954e3	0.80	NO	1.2372	1.2372
2	Total Tetra-Dioxins	22.64	8.258e2	1.080e3	0.76	NO	0.44243	0.44243
3	Total Tetra-Dioxins	23.01	8.902e2	8.920e2	1.00	YES	0.36653	0.00000
4	Total Tetra-Dioxins	23.83	3.726e2	5.040e2	0.74	NO	0.20353	0.20353
5	Total Tetra-Dioxins	23.95	4.735e2	5.807e2	0.82	NO	0.24475	0.00000
6	Total Tetra-Dioxins	23.98	2.189e2	9.216e2	0.24	YES	0.11683	0.00000
7	Total Tetra-Dioxins	24.16	8.510e2	1.154e3	0.74	NO	0.48540	0.48540
8	Total Tetra-Dioxins	24.24	1.710e3	2.084e3	0.82	NO	0.88071	0.88071
9	Total Tetra-Dioxins	24.43	1.027e3	9.129e2	1.12	YES	0.37565	0.00000



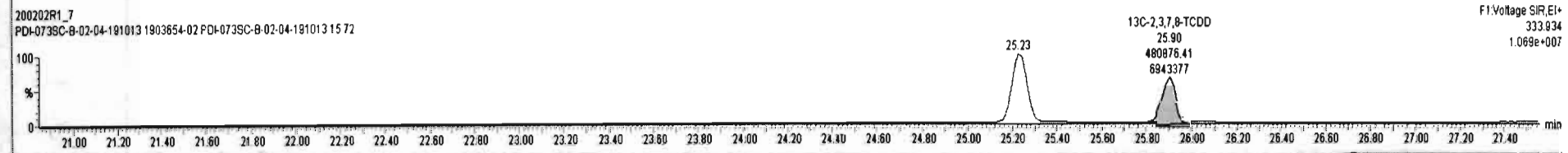
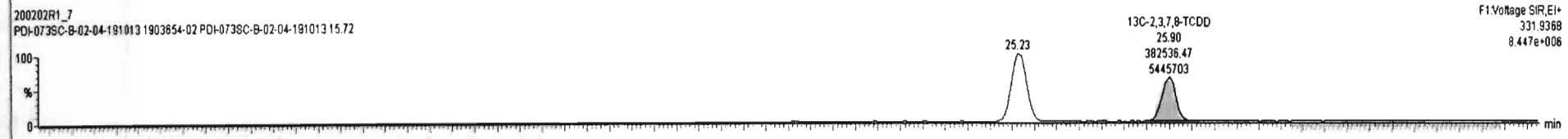
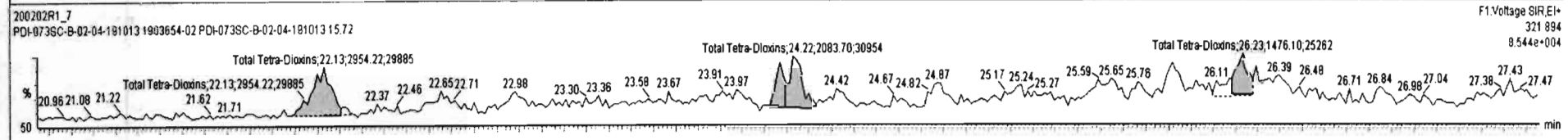
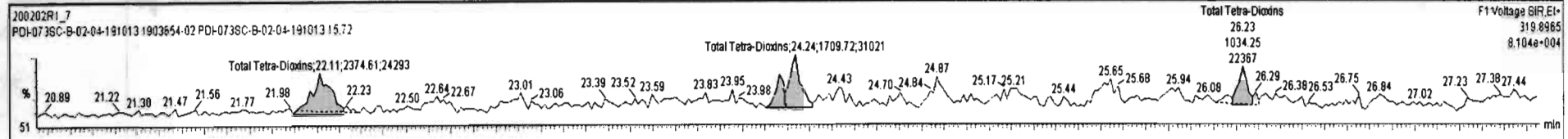
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
34 13C-OCDF	8.78e5	0.89	NO	0.7894	10.098	41.30	1.230	170	42.9	0.207	
35 37Cl-2,3,7,8-TCDD	3.84e5			1.1783	10.098	25.92	1.027	44.3	56.0	0.194	
36 13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.0000	10.098	25.23	1.000	198	100	0.502	
37 13C-1,2,3,4-TCDF	2.05e6	0.78	NO	1.0000	10.098	23.67	1.000	198	100	0.553	
38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.0000	10.098	33.58	1.008	198	100	0.280	
39 Total Tetra-Dioxins				0.9681	10.098			2.58		0.432	4.53
40 Total Penta-Dioxins				0.9723	10.098			11.7		0.303	16.9
41 Total Hexa-Dioxins				0.9211	10.098			141		0.305	143
42 Total Hepta-Dioxins				0.9231	10.098			1130		1.36	1130

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.11	2.375e3	2.954e3	0.80	NO	1.2372	1.2372
2 Total Tetra-Dioxins	24.16	8.510e2	1.154e3	0.74	NO	0.46540	0.46540
3 Total Tetra-Dioxins	24.24	1.710e3	2.084e3	0.82	NO	0.88071	0.88071
4 Total Tetra-Dioxins	25.85	1.331e3	7.851e2	1.70	YES	0.32262	0.00000
5 2,3,7,8-TCDD	25.94	5.617e2	1.658e3	0.34	YES	0.29875	0.00000
6 Total Tetra-Dioxins	26.23	1.349e3	2.286e3	0.59	YES	0.71992	0.00000
7 Total Tetra-Dioxins	26.33	2.768e2	9.613e2	0.29	YES	0.14764	0.00000
8 Total Tetra-Dioxins	26.38	4.138e2	7.205e2	0.57	YES	0.22086	0.00000
9 Total Tetra-Dioxins	26.84	6.003e2	5.854e2	1.03	YES	0.74055	0.00000



Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
34 13C-OCDF	8.78e5	0.89	NO	0.7894	10.098	41.30	1.230	170	42.9	0.207	
35 37Cl-2,3,7,8-TCDD	3.84e5			1.1763	10.098	25.92	1.027	44.3	56.0	0.194	
36 13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.0000	10.098	25.23	1.000	198	100	0.502	
37 13C-1,2,3,4-TCDF	2.05e6	0.78	NO	1.0000	10.098	23.67	1.000	198	100	0.553	
38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.0000	10.098	33.59	1.000	198	100	0.280	
39 Total Tetra-Dioxins				0.9881	10.098			3.17		0.432	3.17
40 Total Penta-Dioxins				0.9723	10.098			11.7		0.303	16.9
41 Total Hexa-Dioxins				0.9211	10.098			141		0.305	143
42 Total Hepta-Dioxins				0.9231	10.098			1130		1.36	1130

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.11	2.375e3	2.954e3	0.80	NO	1.2372	1.2372
2 Total Tetra-Dioxins	24.16	8.510e2	1.154e3	0.74	NO	0.46540	0.46540
3 Total Tetra-Dioxins	24.24	1.710e3	2.084e3	0.82	NO	0.88071	0.88071
4 Total Tetra-Dioxins	26.23	1.034e3	1.476e3	0.70	NO	0.58282	0.58282



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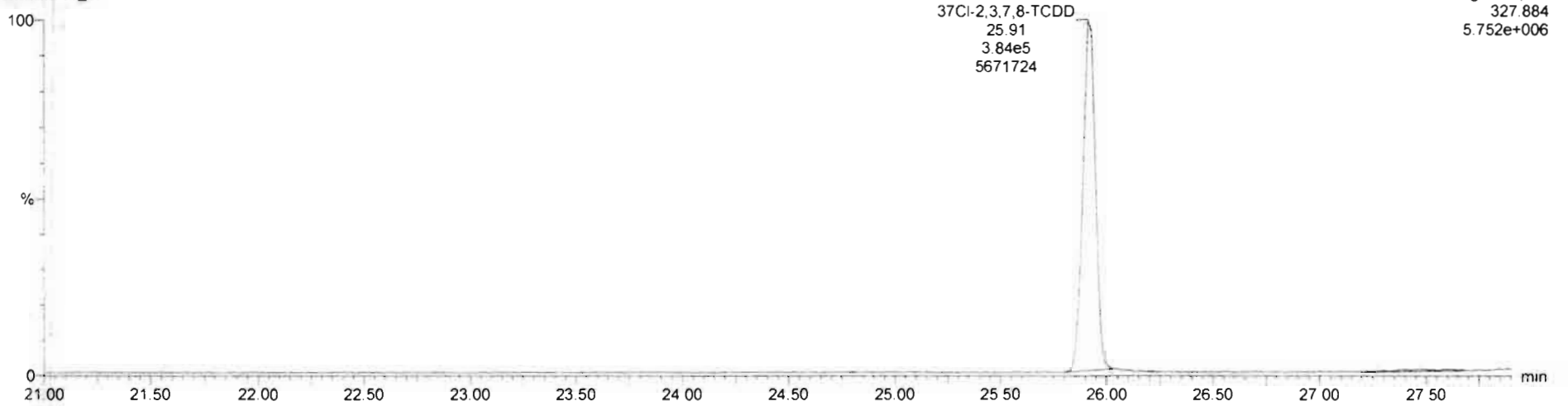
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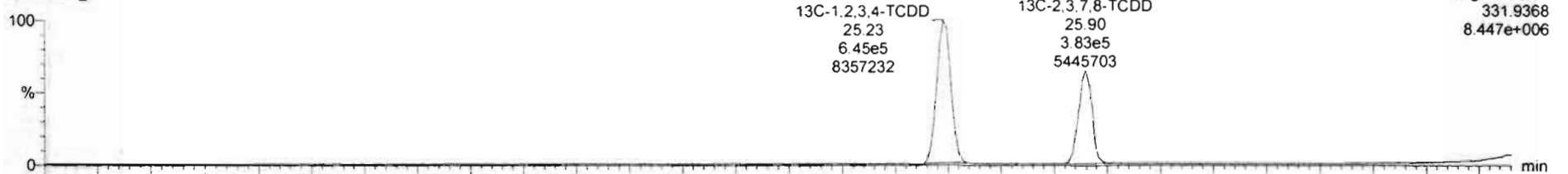
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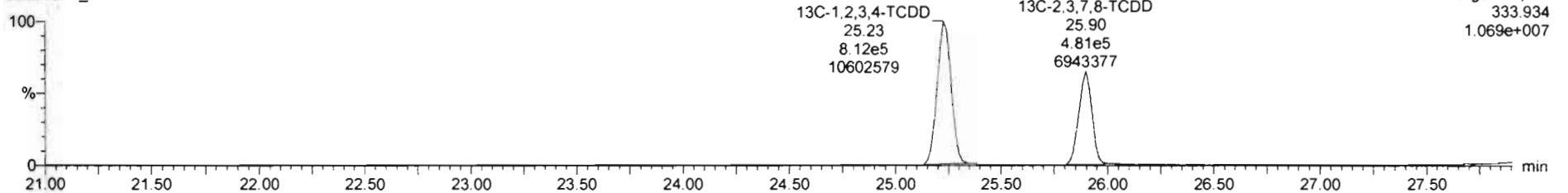


13C-1,2,3,4-TCDD

200202R1_7



200202R1_7



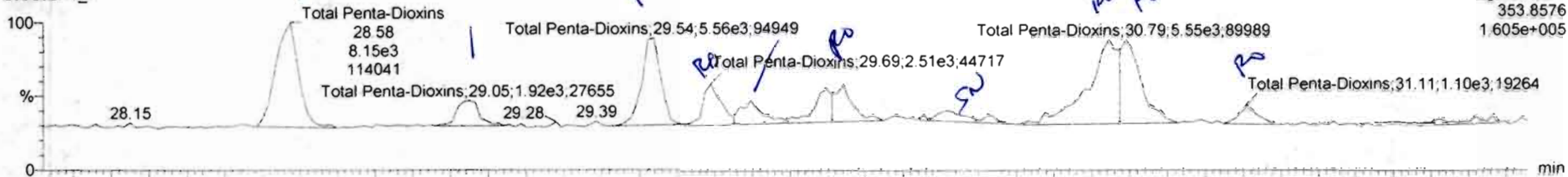
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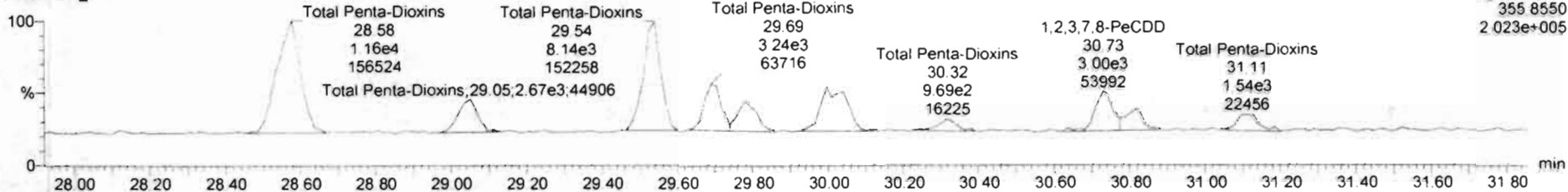
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200202R1_7



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1.605e+005

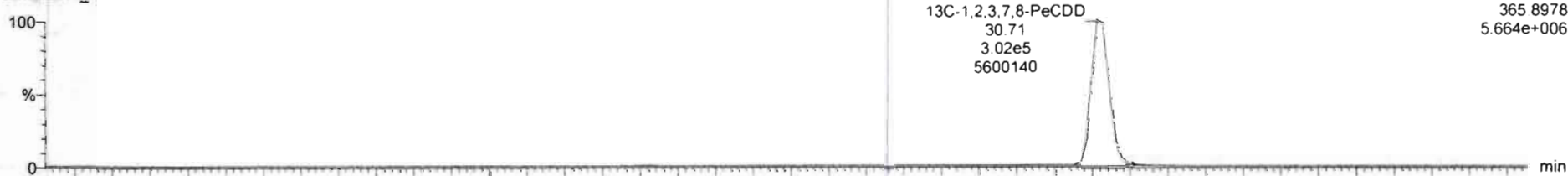
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F2: Voltage SIR, EI+
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2.023e+005

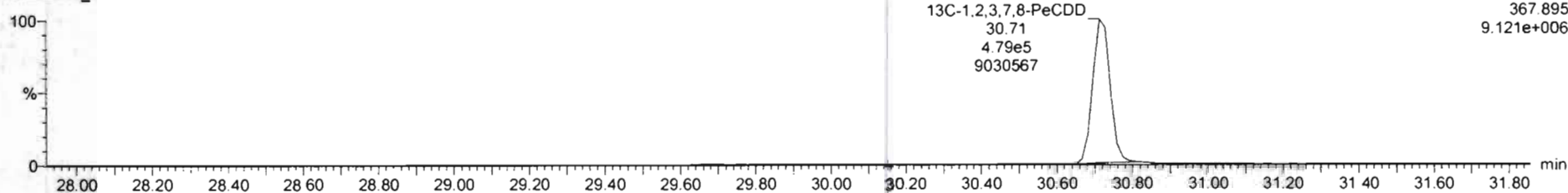
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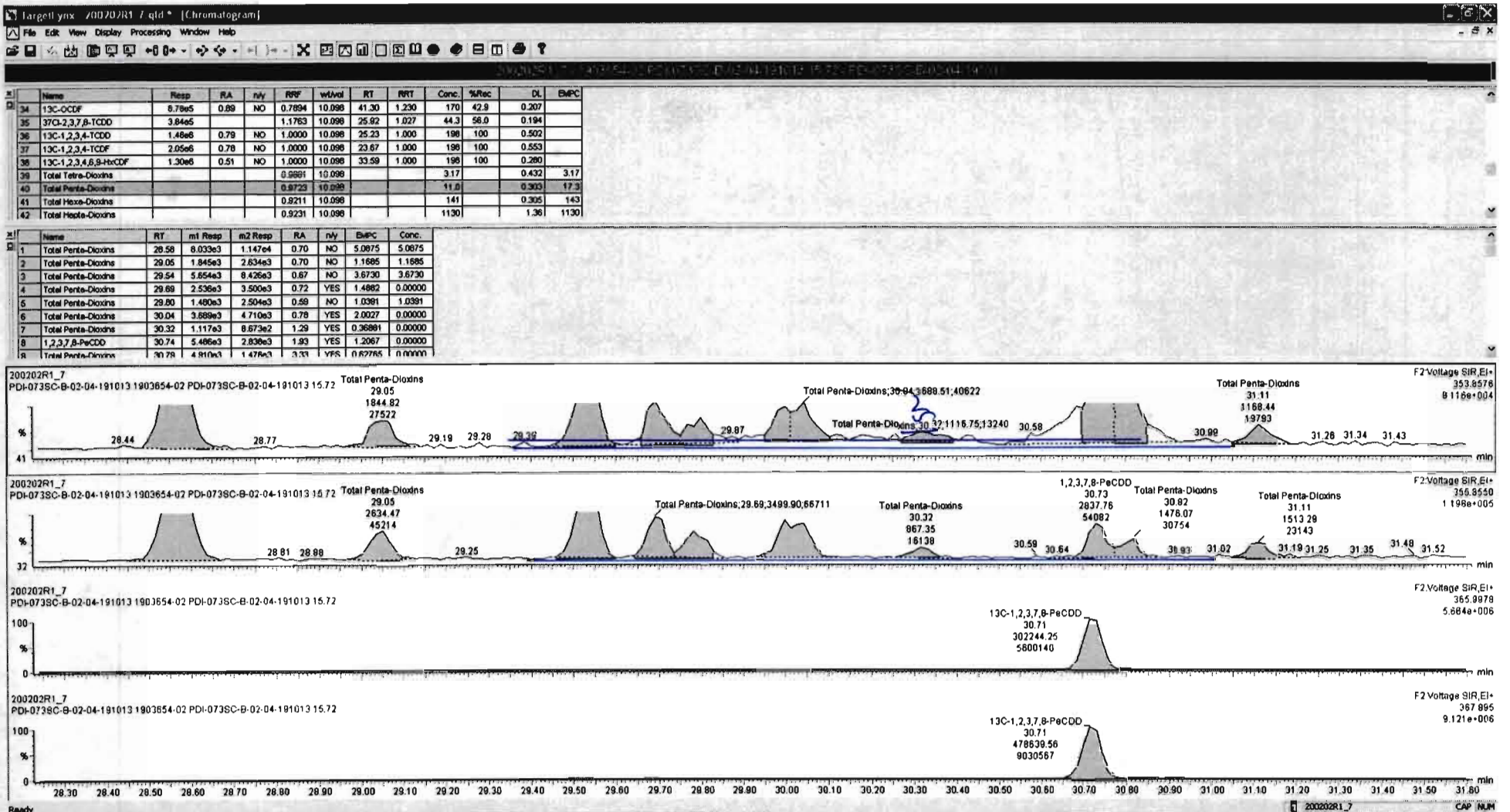


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5.664e+006

200202R1_7

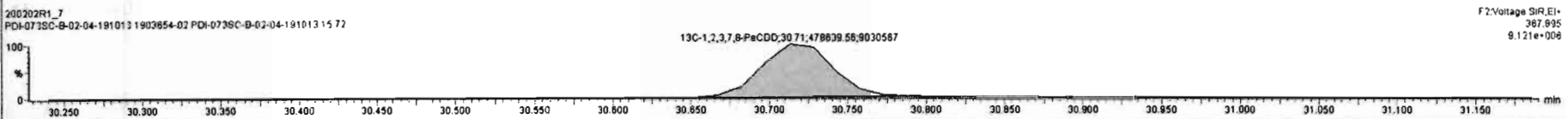
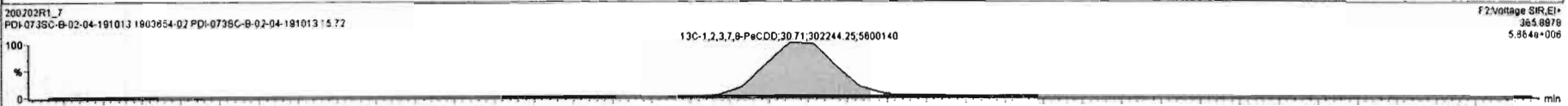
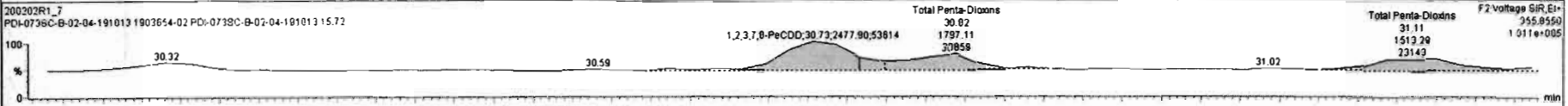
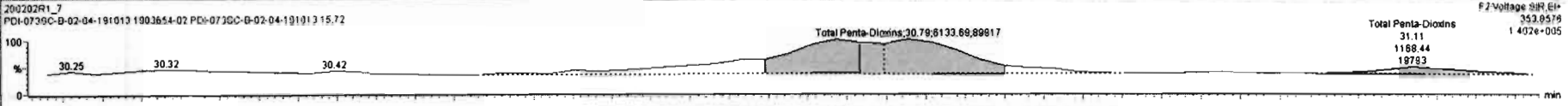


F2: Voltage SIR, EI+
367 895
9.121e+006



SI	Name	Resp	RA	n/y	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
34	13C-OCDF	8.70e5	0.89	NO	0.7894	10.098	41.30	1.230	170	42.8	0.207	
35	37C-2,3,7,8-TCDD	3.84e5			1.1763	10.098	25.92	1.027	44.3	56.0	0.194	
36	13C-1,2,3,4-TCDD	1.48e6	0.78	NO	1.0000	10.098	25.23	1.000	198	100	0.502	
37	13C-1,2,3,4-TCDF	2.05e6	0.78	NO	1.0000	10.098	23.67	1.000	198	100	0.553	
38	13C-1,2,3,4,6,8-HxCDF	1.30e6	0.61	NO	1.0000	10.098	33.59	1.000	198	100	0.280	
39	Total Tetra-Dioxins				0.9881	10.098			3.17		0.432	3.17
40	Total Penta-Dioxins				0.9723	10.098			11.0		0.303	16.9
41	Total Hexa-Dioxins				0.9211	10.098			141		0.305	143
42	Total Hepta-Dioxins				0.9231	10.098			1130		1.36	1130

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	28.58	8.033e3	1.147e4	0.70	NO	5.0875	5.0875
2	Total Penta-Dioxins	28.05	1.845e3	2.634e3	0.70	NO	1.1685	1.1685
3	Total Penta-Dioxins	28.54	5.654e3	8.426e3	0.87	NO	3.8730	3.8730
4	Total Penta-Dioxins	29.89	2.536e3	3.500e3	0.72	YES	1.4882	0.00000
5	Total Penta-Dioxins	29.80	1.480e3	2.504e3	0.59	NO	1.0391	1.0391
6	Total Penta-Dioxins	30.04	3.889e3	4.710e3	0.78	YES	2.0027	0.00000
7	1,2,3,7,8-PeCDD	30.74	4.145e3	2.478e3	1.87	YES	1.0537	0.00000
8	Total Penta-Dioxins	30.79	6.134e3	1.797e3	3.41	YES	0.78417	0.00000
9	Total Penta-Dioxins	31.11	1.189e3	1.513e3	0.77	YES	0.64348	0.00000



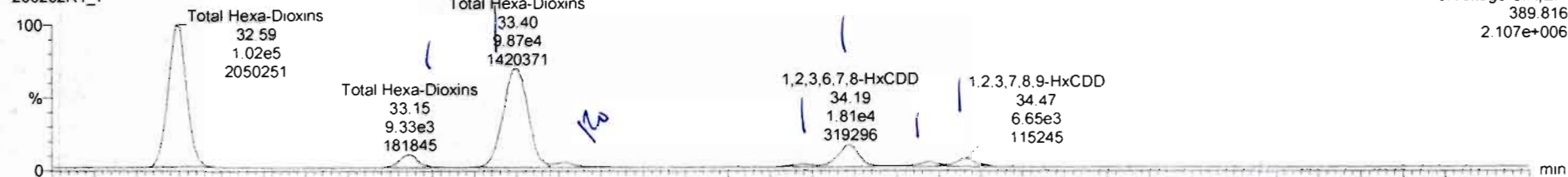
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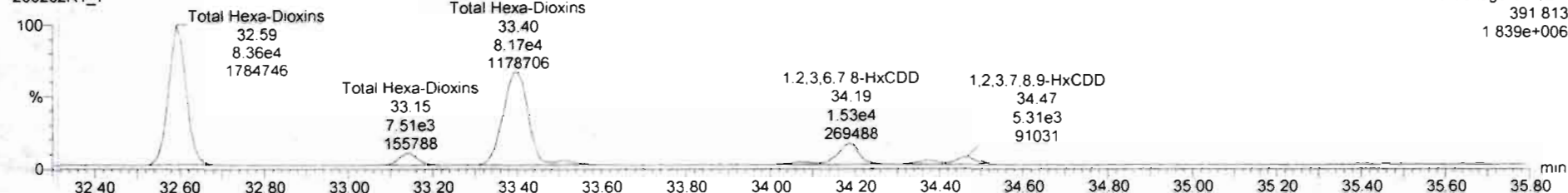
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1,2,3,4,7,8-HxCDD

200202R1_7

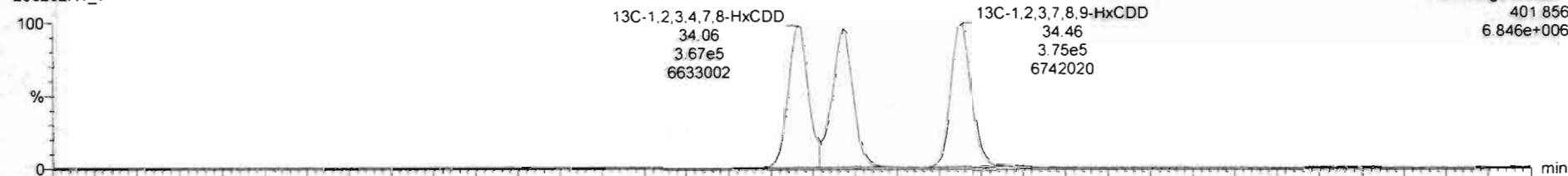


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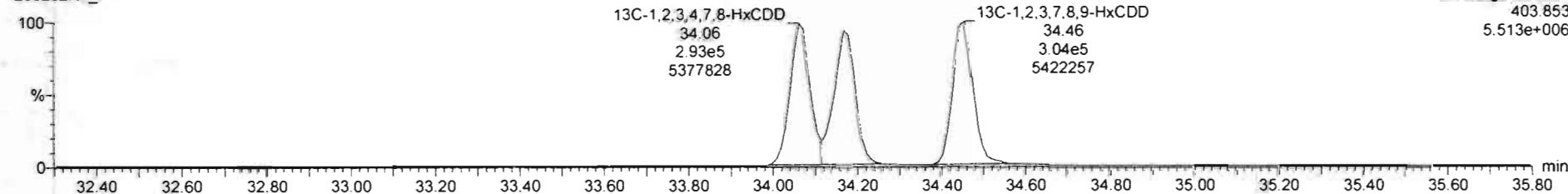


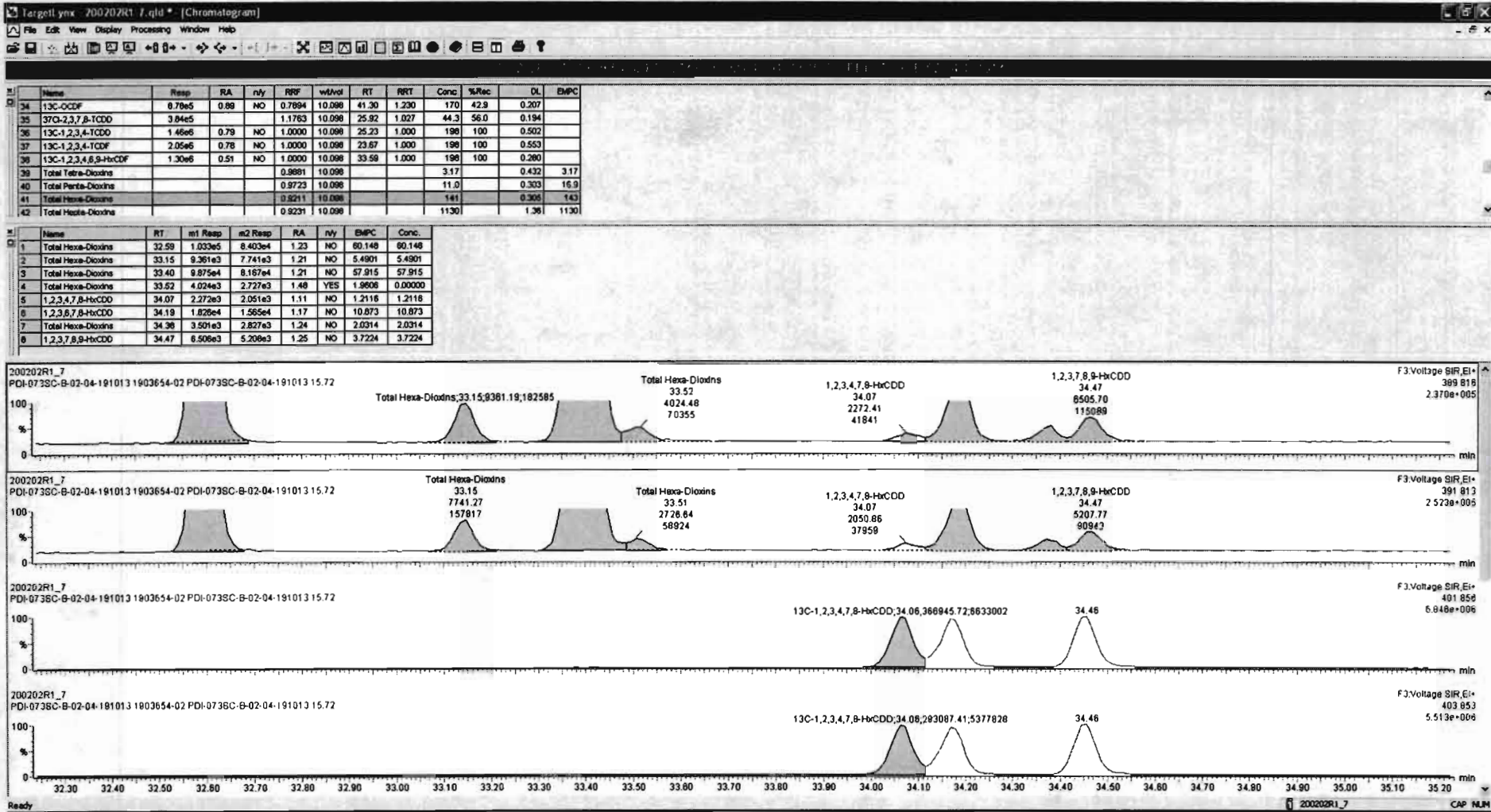
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200202R1_7





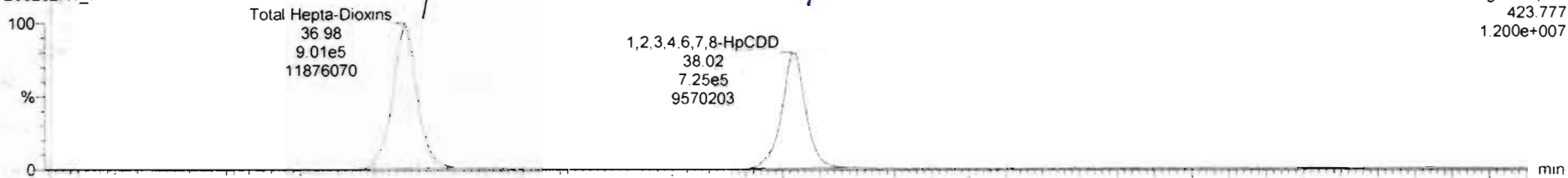
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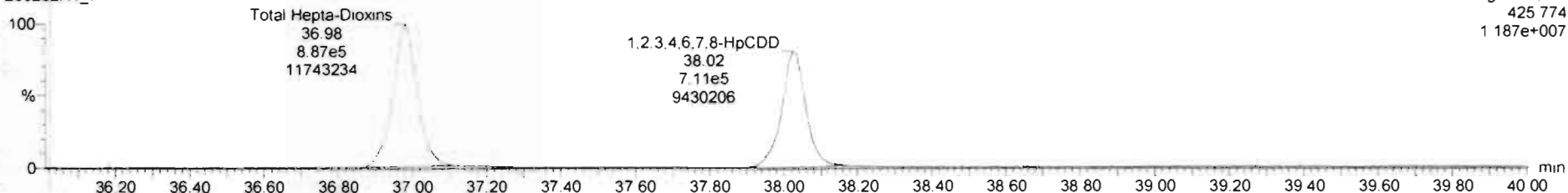
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1,2,3,4,6,7,8-HpCDD

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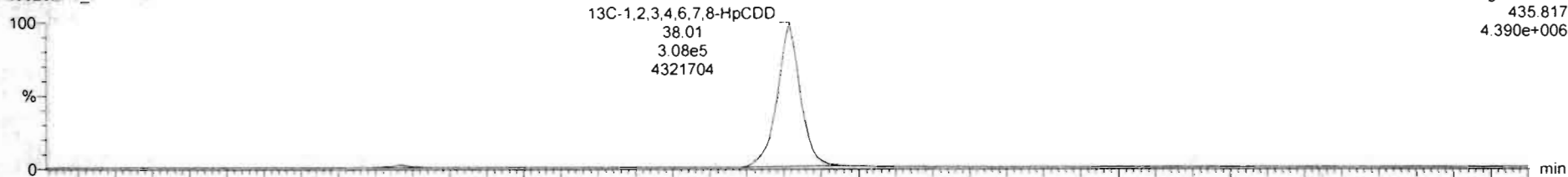


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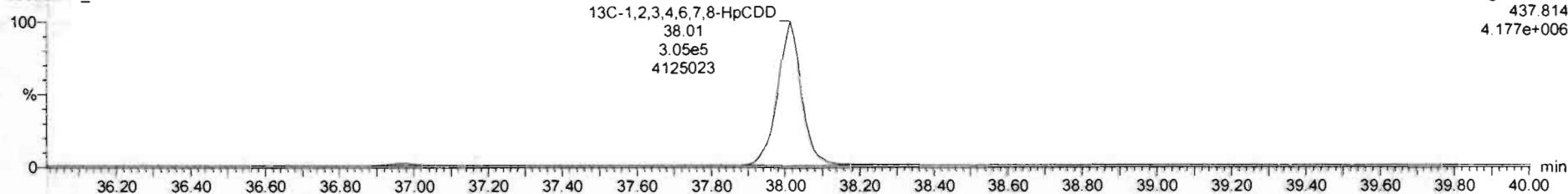


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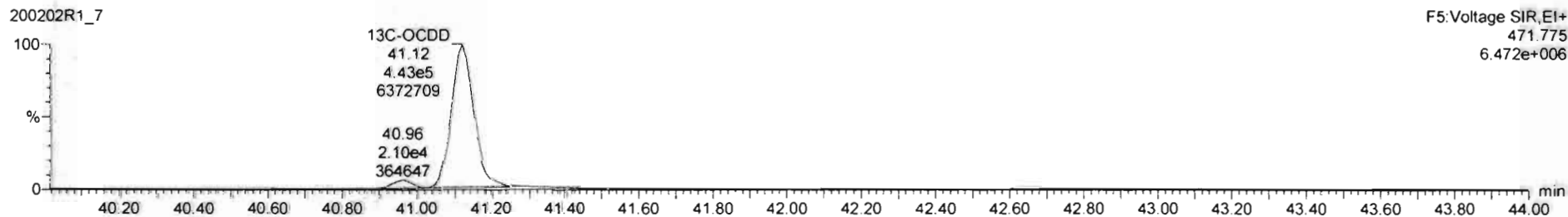
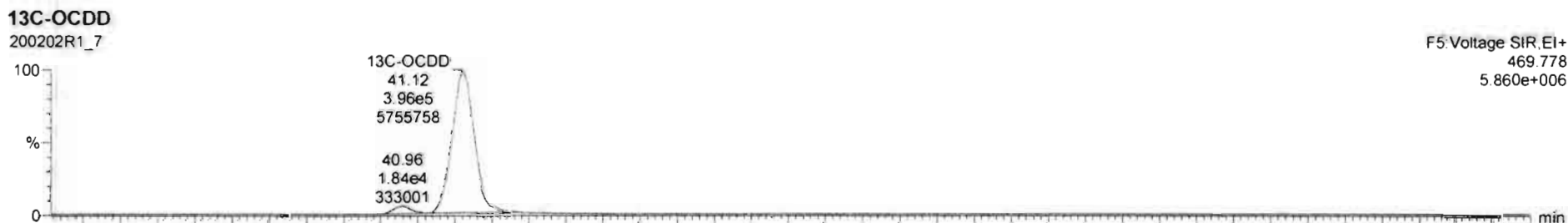
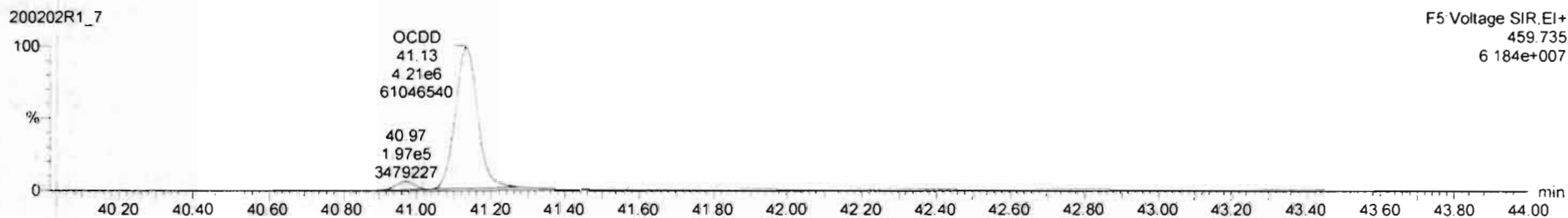
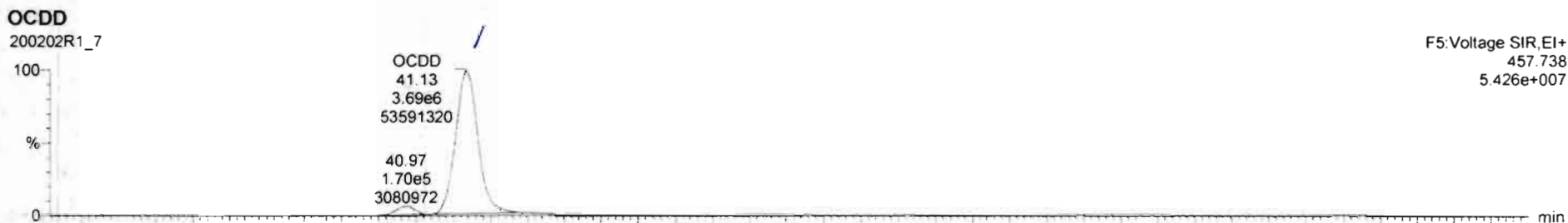
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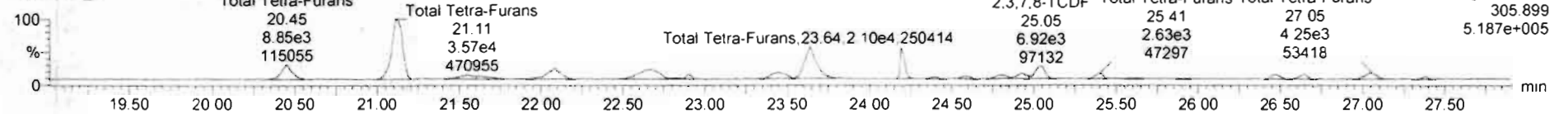
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2,3,7,8-TCDF

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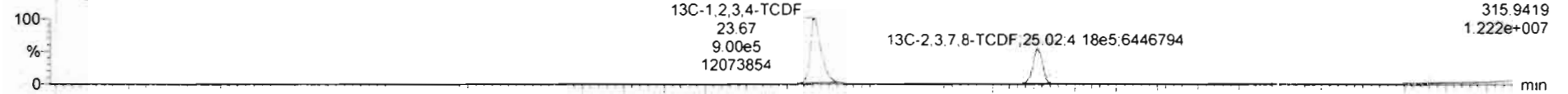


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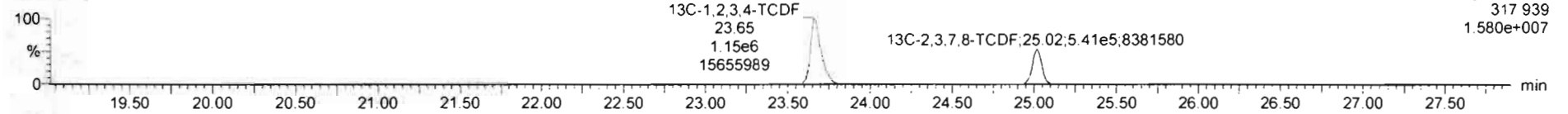


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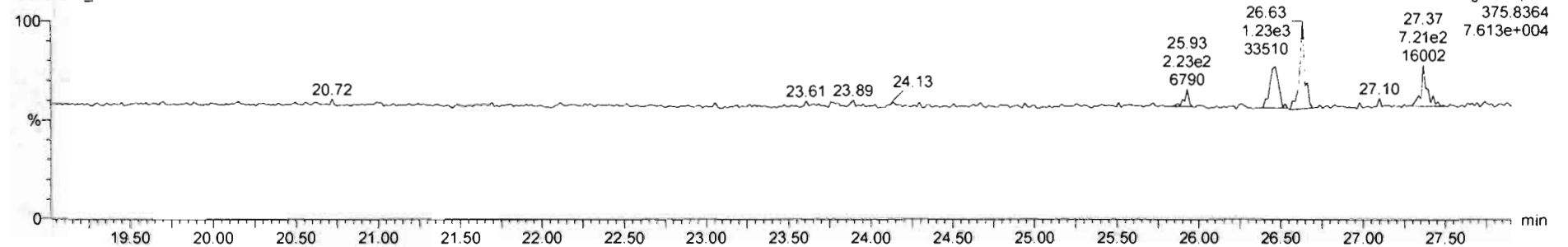


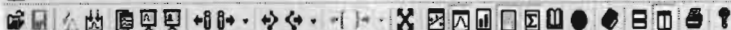
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DPE1

200202R1_7

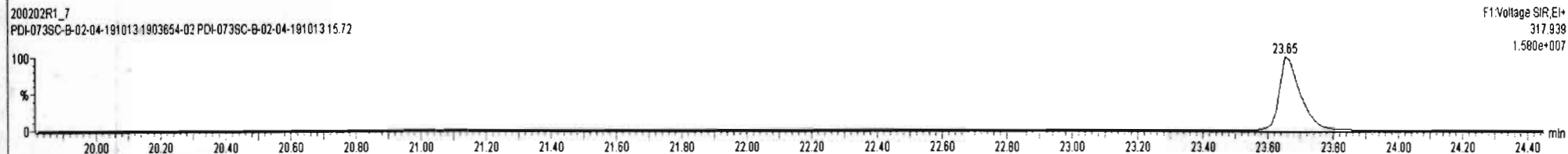
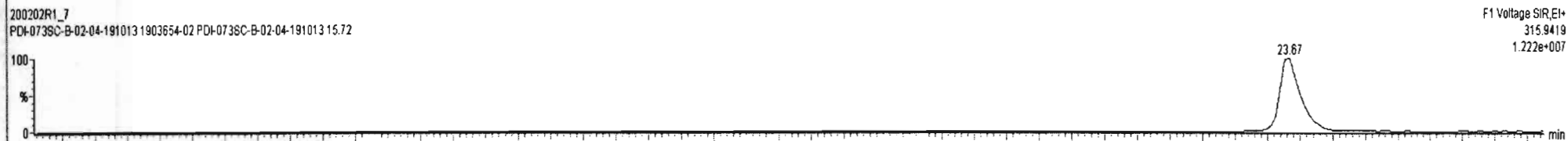
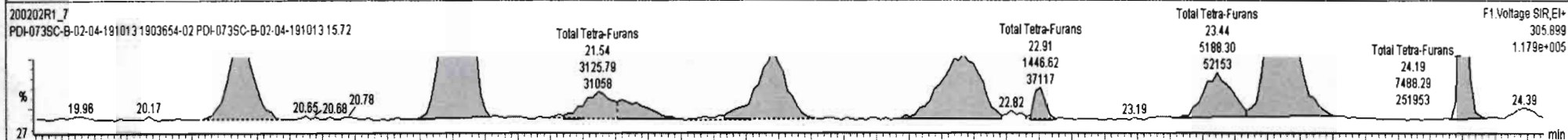
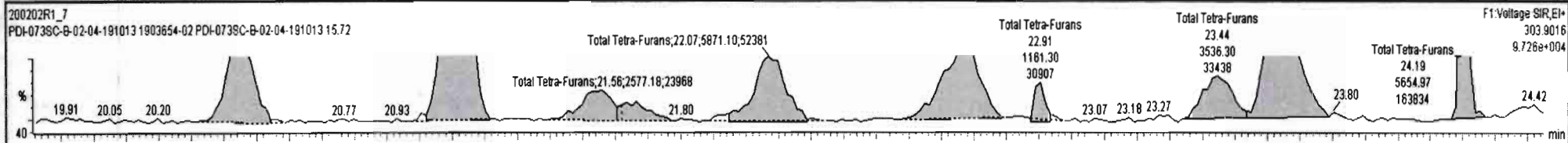




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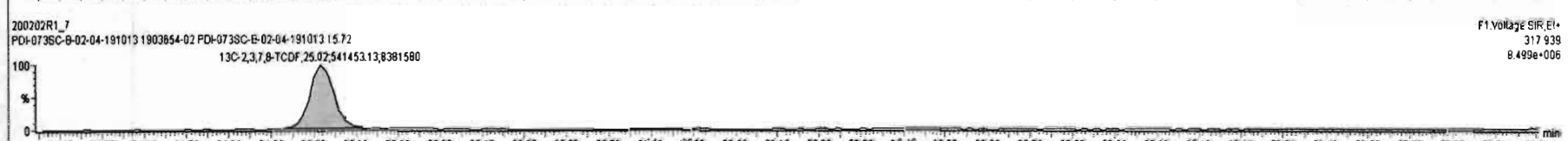
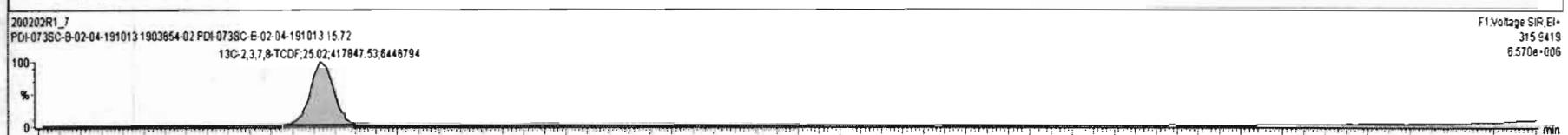
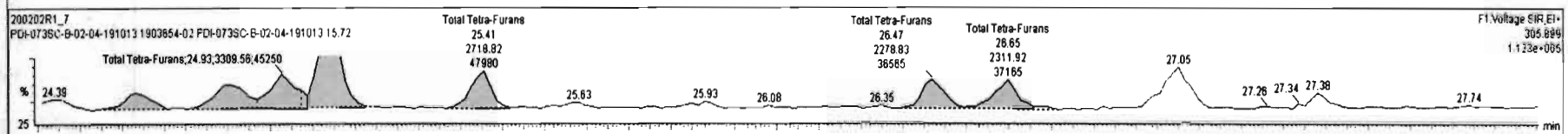
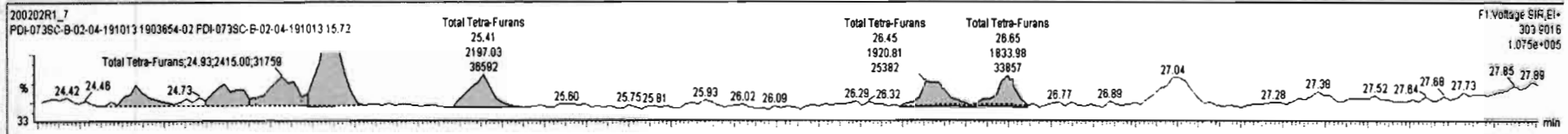
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.098			54.5	0.343	56.2	
44 1st Func. Penta-Furans				0.9074	10.098			43.9	0.106	43.9	
45 Total Penta-Furans				0.9074	10.098			41.6	0.513	42.4	
46 Total Hexa-Furans				0.8982	10.098			95.5	0.310	95.7	
47 Total Hepta-Furans				0.8511	10.098			288	0.536	288	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.45	6.715e3	8.801e3	0.76	NO	3.9947	3.9947
2 Total Tetra-Furans	21.13	2.598e4	3.567e4	0.73	NO	15.872	15.872
3 Total Tetra-Furans	21.56	2.577e3	3.126e3	0.82	NO	1.4682	1.4682
4 Total Tetra-Furans	21.66	1.440e3	2.153e3	0.67	NO	0.92504	0.92504
5 Total Tetra-Furans	22.07	5.871e3	8.306e3	0.71	NO	3.6503	3.6503
6 Total Tetra-Furans	22.68	7.922e3	1.102e4	0.72	NO	4.8777	4.8777
7 Total Tetra-Furans	22.91	1.161e3	1.447e3	0.80	NO	0.67141	0.67141
8 Total Tetra-Furans	23.44	3.536e3	5.188e3	0.68	NO	2.2461	2.2461
9 Total Tetra-Furans	23.64	1.561e4	2.110e4	0.74	NO	9.4263	9.4263



Name	Resp	RA	n/y	RF	wArd	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.098			54.5	0.343	58.2	
44 1st Func. Penta-Furans				0.8074	10.098			43.9	0.106	43.9	
45 Total Penta-Furans				0.8074	10.098			41.6	0.513	42.4	
46 Total Hexa-Furans				0.8992	10.098			95.5	0.310	95.7	
47 Total Hepta-Furans				0.8511	10.098			286	0.536	286	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
10 Total Tetra-Furans	24.19	5.855e3	7.489e3	0.76	NO	3.3637	3.3637
11 Total Tetra-Furans	24.58	1.291e3	1.402e3	0.92	YES	0.63879	0.00000
12 Total Tetra-Furans	24.79	1.723e3	2.871e3	0.65	YES	1.0199	0.00000
13 Total Tetra-Furans	24.93	2.415e3	3.310e3	0.73	NO	1.4738	1.4738
14 2,3,7,8-TCDF	25.03	5.348e3	6.741e3	0.79	NO	3.1123	3.1123
15 Total Tetra-Furans	25.41	2.197e3	2.719e3	0.81	NO	1.2656	1.2656
16 Total Tetra-Furans	26.45	1.821e3	2.279e3	0.84	NO	1.0812	1.0812
17 Total Tetra-Furans	26.65	1.834e3	2.312e3	0.79	NO	1.0674	1.0674



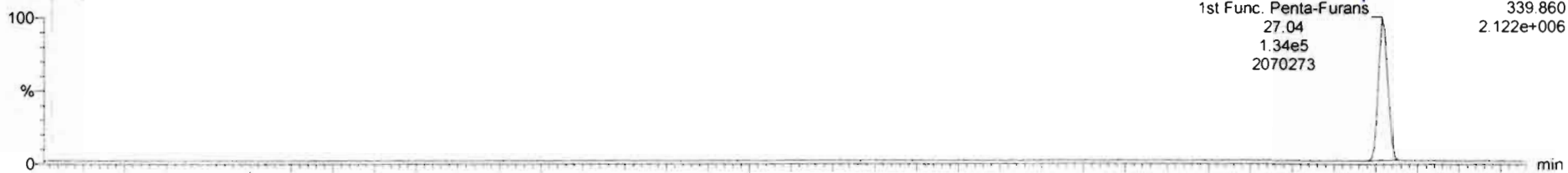
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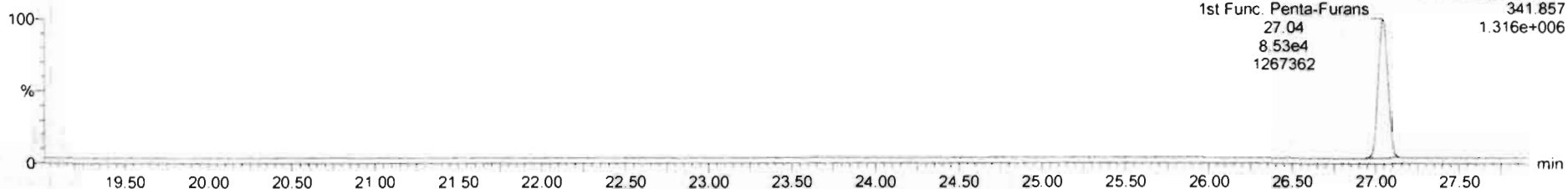
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1st Func. Penta-Furans

200202R1_7

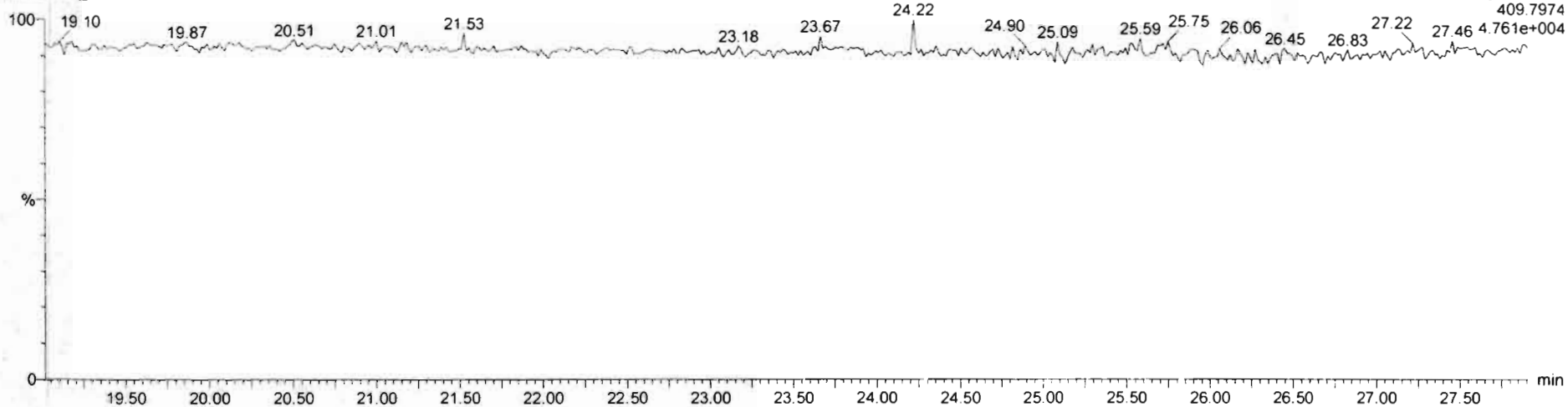


200202R1_7



DPE6

200202R1_7



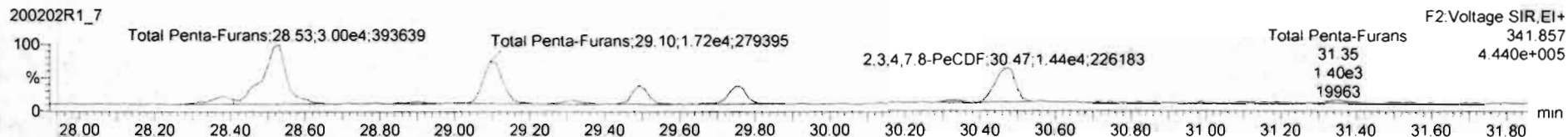
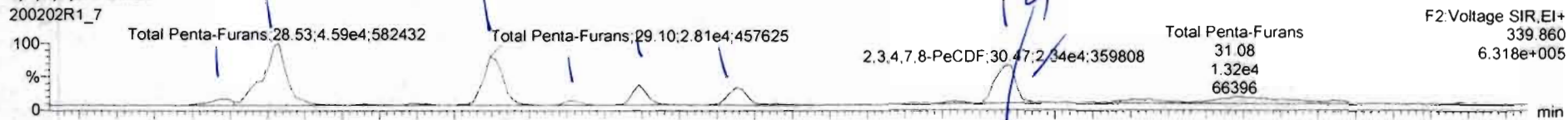
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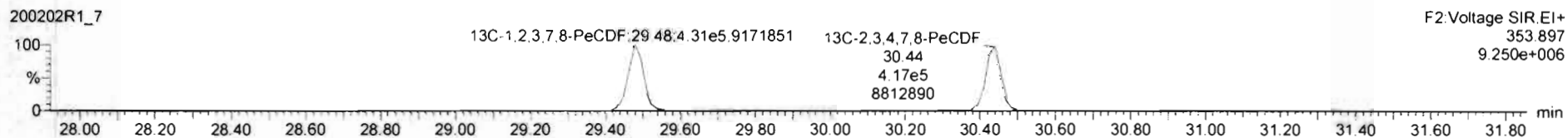
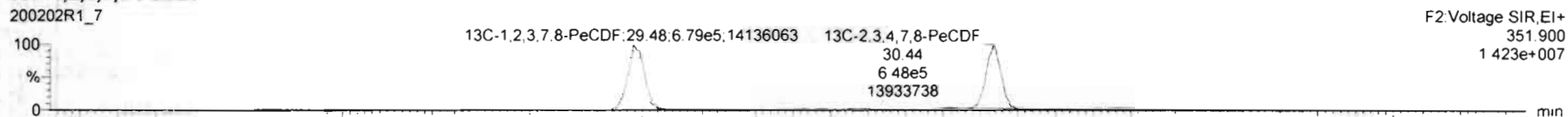
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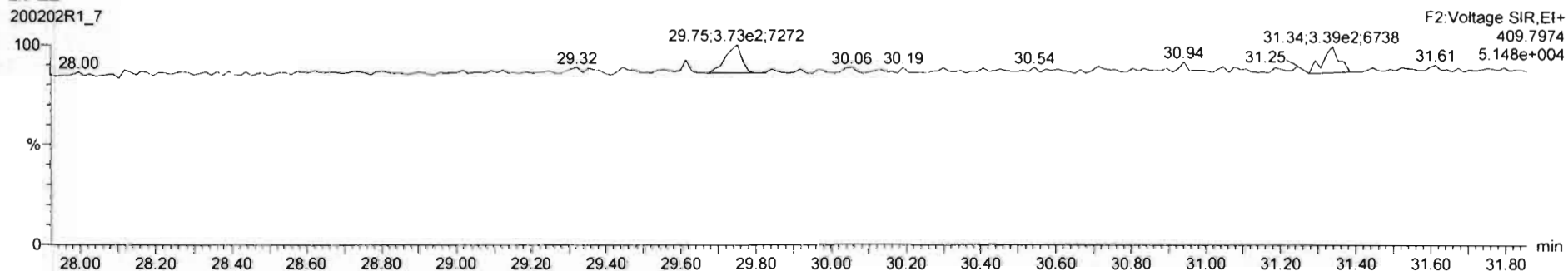
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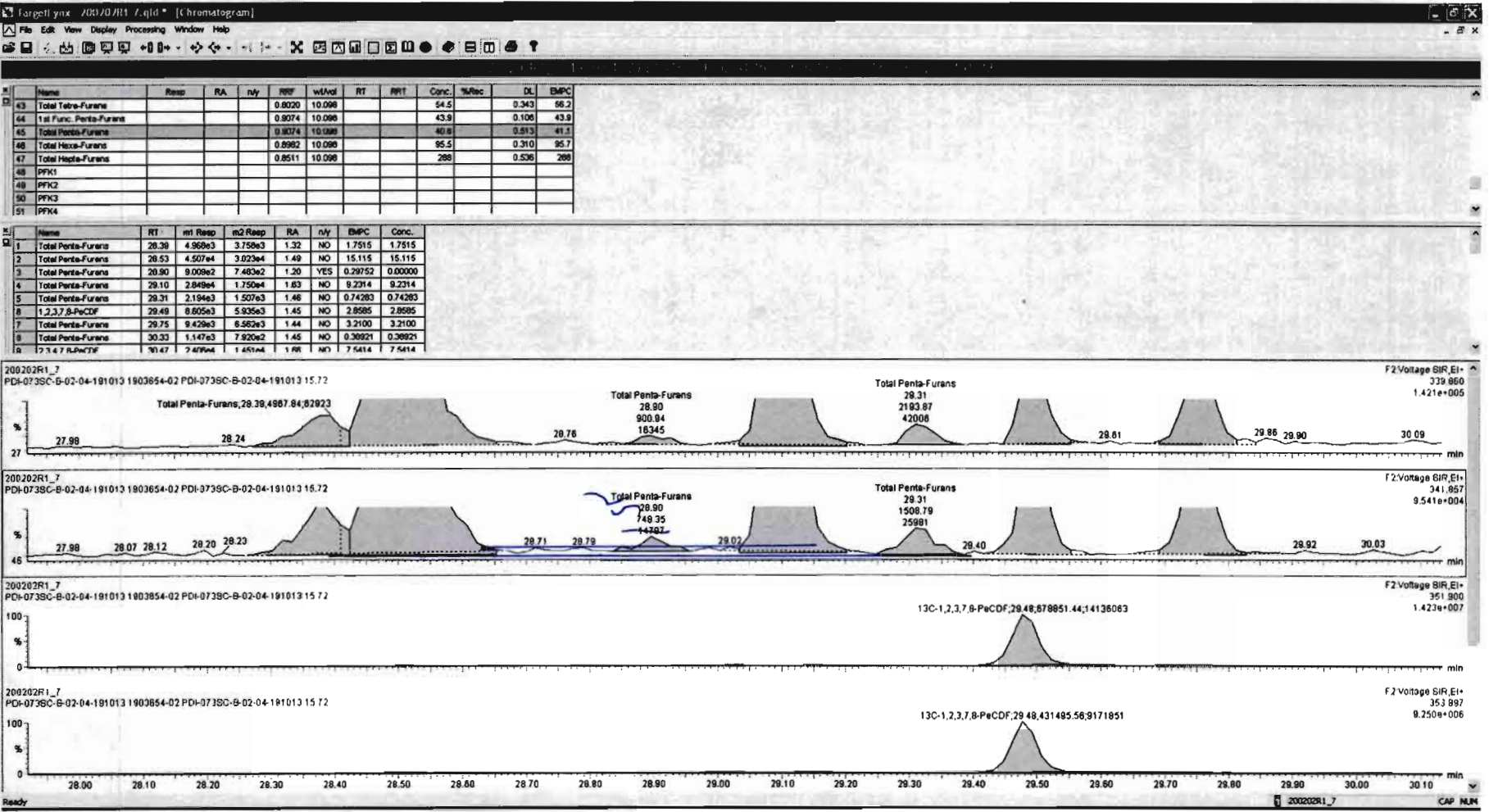


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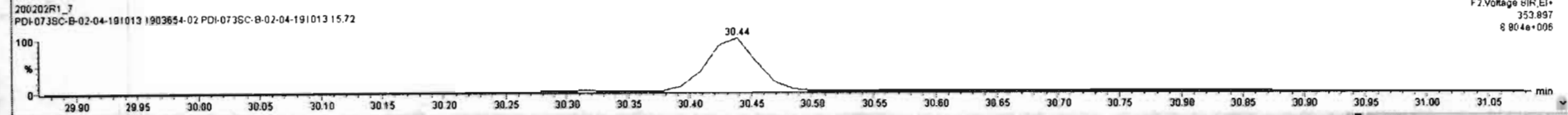
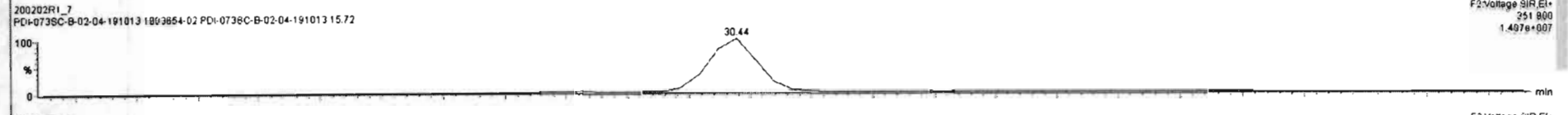
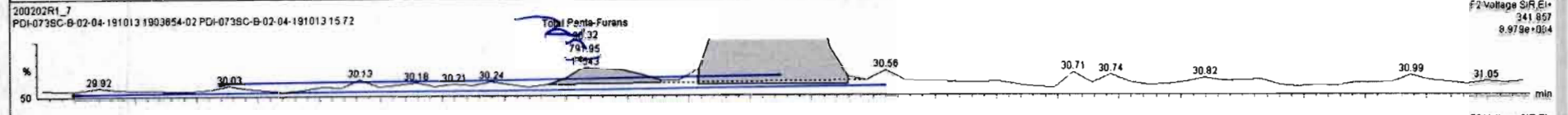
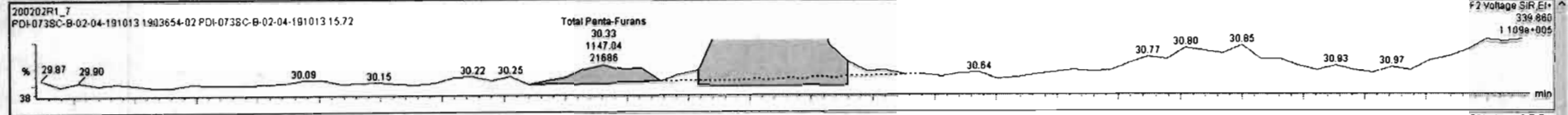
DPE2





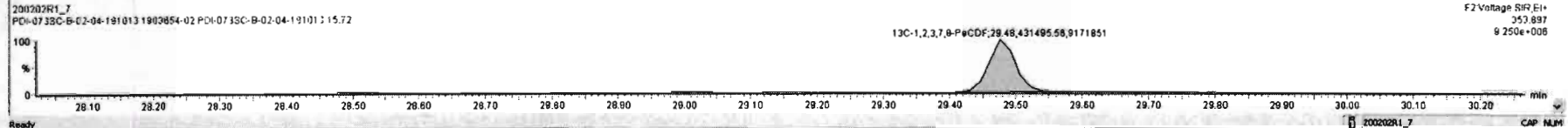
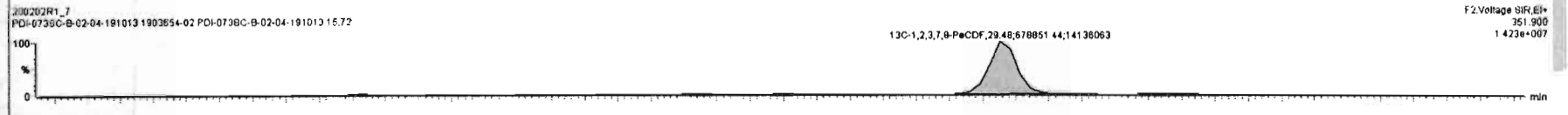
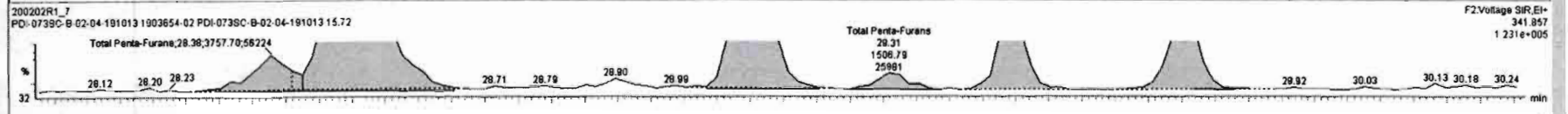
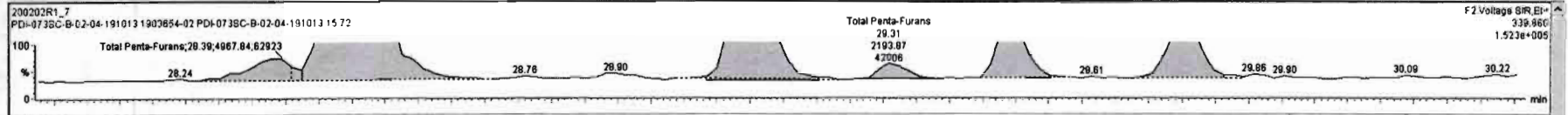
Name	Resp	RA	n/y	RRF	wt/dwt	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.098			54.5		0.343	58.2
44 1st Func. Penta-Furans				0.9074	10.098			43.9		0.108	43.9
45 Total Penta-Furans				0.9074	10.098			40.8		0.513	41.1
46 Total Hexa-Furans				0.8982	10.098			95.5		0.310	95.7
47 Total Hepta-Furans				0.8511	10.098			288		0.536	288
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.39	4.968e3	3.758e3	1.32	NO	1.7515	1.7515
2 Total Penta-Furans	28.53	4.507e4	3.023e4	1.49	NO	15.115	15.115
3 Total Penta-Furans	28.90	9.009e2	7.483e2	1.20	YES	0.29752	0.00000
4 Total Penta-Furans	29.10	2.849e4	1.750e4	1.63	NO	9.2314	9.2314
5 Total Penta-Furans	29.31	2.194e3	1.507e3	1.46	NO	0.74283	0.74283
6 1,2,3,7,8-PeCDF	29.49	8.605e3	5.935e3	1.45	NO	2.8585	2.8585
7 Total Penta-Furans	29.75	9.429e3	6.562e3	1.44	NO	3.2100	3.2100
8 Total Penta-Furans	30.33	1.147e3	7.920e2	1.45	NO	0.38921	0.38921
9 1,2,4,7,8-PeCDF	30.47	2.496e4	1.451e4	1.66	NO	7.5414	7.5414



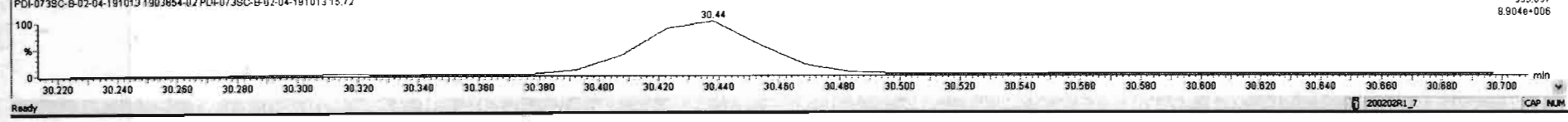
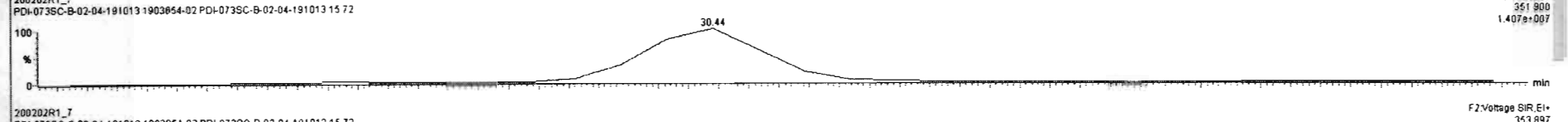
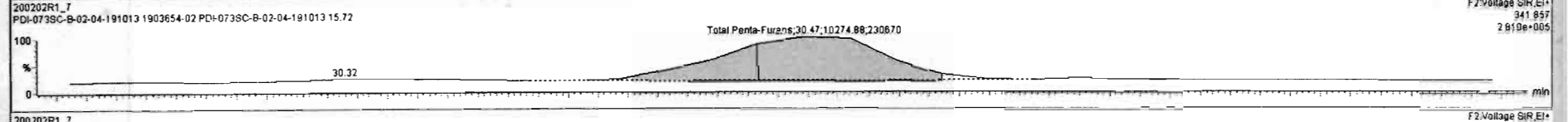
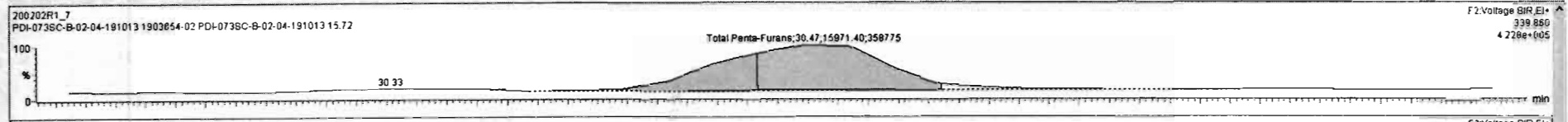
N	Name	Resp	RA	nly	RF	wAve	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxine				0.9231	10.098			1130		1.38	1130
43	Total Tetra-Furans				0.8020	10.098			54.5		0.343	58.2
44	1st Func. Penta-Furans				0.9074	10.098			43.9		0.108	43.9
45	Total Penta-Furans				0.9074	10.098			18.1		0.913	40.5
46	Total Hexa-Furans				0.8982	10.098			95.5		0.310	95.7
47	Total Hepta-Furans				0.8511	10.098			288		0.538	288
48	PK1											
49	PK2											
50	PK3											

N	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.39	4.868e3	3.758e3	1.32	NO	1.7515	0.00000
2	Total Penta-Furans	28.53	4.507e4	3.023e4	1.48	NO	15.115	0.00000
3	Total Penta-Furans	29.10	2.848e4	1.750e4	1.83	NO	9.2314	9.2314
4	Total Penta-Furans	29.31	2.194e3	1.507e3	1.45	NO	0.74283	0.74283
5	1,2,3,7,8-PeCDF	29.49	8.805e3	5.935e3	1.45	NO	2.8585	2.8585
6	Total Penta-Furans	29.75	9.429e3	6.552e3	1.44	NO	3.2100	3.2100
7	2,3,4,7,8-PeCDF	30.45	6.505e3	4.108e3	1.58	NO	2.0751	2.0751
8	Total Penta-Furans	30.47	1.894e4	1.078e4	1.57	NO	5.5593	0.00000



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	BWPC
42	Total Hepto-Dioxins				0.8231	10.098			1130		1.36	1130
43	Total Tetra-Furans				0.8020	10.098			54.5		0.343	58.2
44	1st Func. Penta-Furans				0.9074	10.098			43.9		0.106	43.9
45	Total Penta-Furans				0.9074	10.098			18.1		0.513	40.3
46	Total Hexa-Furans				0.8982	10.098			89.2		0.310	95.7
47	Total Hepto-Furans				0.8511	10.098			288		0.536	288
48	PPK1											
49	PPK2											
50	PPK3											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	BWPC	Conc.
1	Total Penta-Furans	28.39	4.968e3	3.759e3	1.32	NO	1.7515	0.00000
2	Total Penta-Furans	28.53	4.507e4	3.023e4	1.48	NO	15.115	0.00000
3	Total Penta-Furans	29.10	2.849e4	1.750e4	1.63	NO	9.2314	9.2314
4	Total Penta-Furans	29.31	2.194e3	1.507e3	1.48	NO	0.74283	0.74283
5	1,2,3,7-β-PeCDF	29.49	8.805e3	5.935e3	1.45	NO	2.8585	2.8585
6	Total Penta-Furans	29.75	9.429e3	6.562e3	1.44	NO	3.2100	3.2100
7	2,3,4,7-β-PeCDF	30.45	6.505e3	4.108e3	1.58	NO	2.0751	2.0751
8	Total Penta-Furans	30.47	1.587e4	1.027e4	1.55	NO	5.2684	0.00000

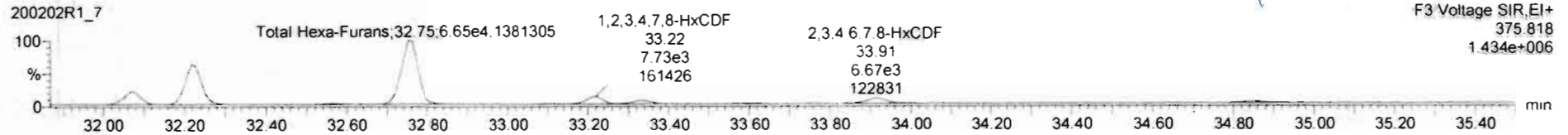
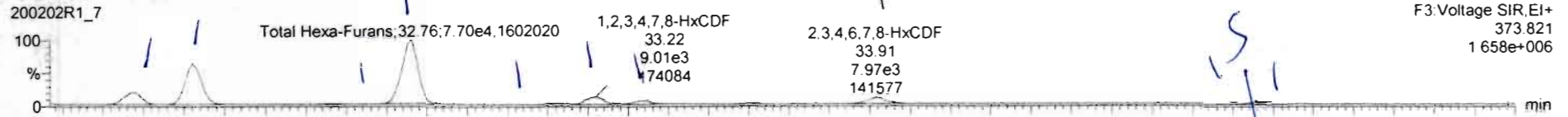


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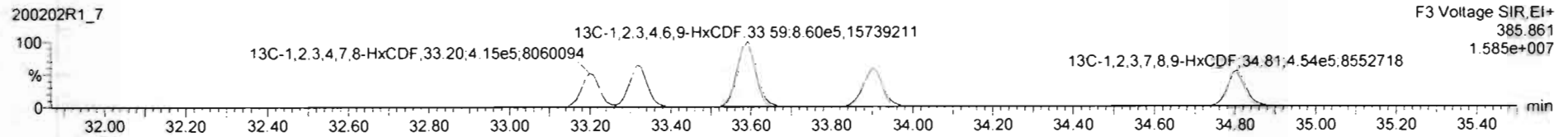
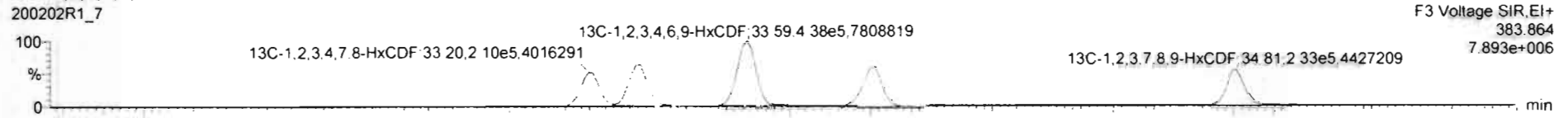
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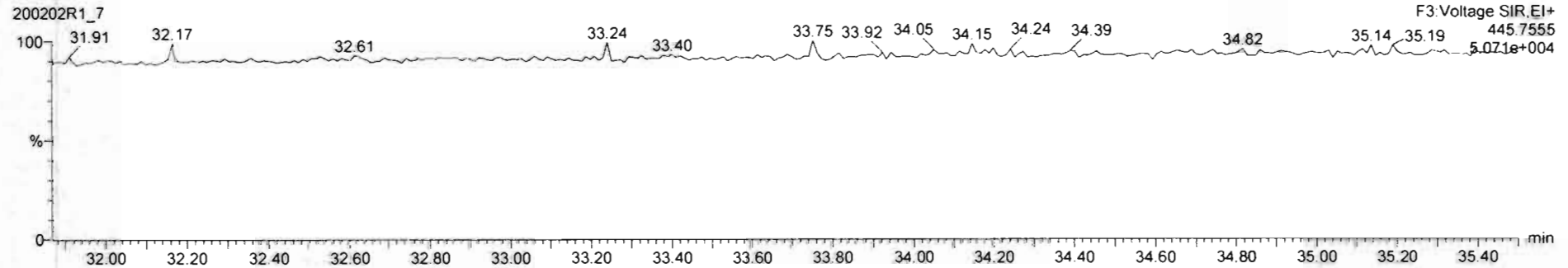
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13C-1,2,3,4,7,8-HxCDF

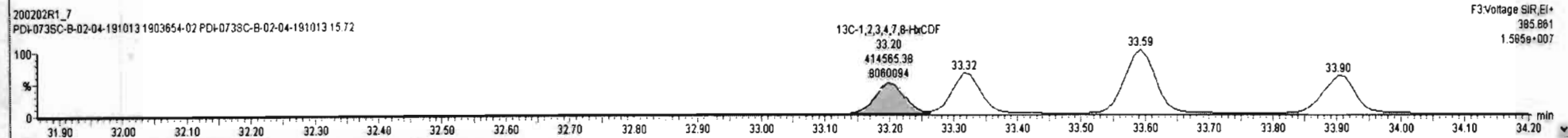
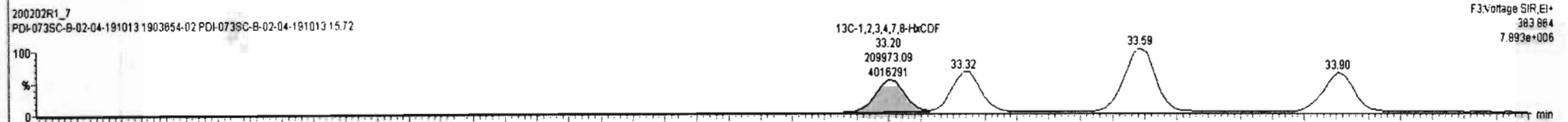
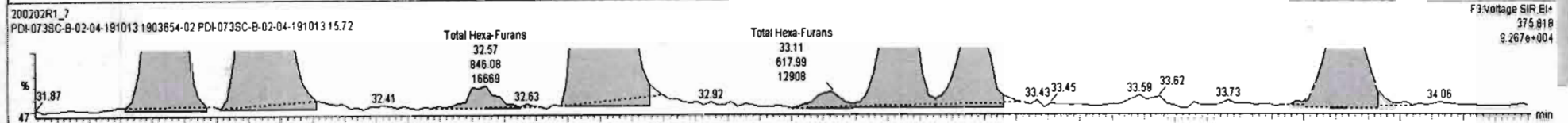
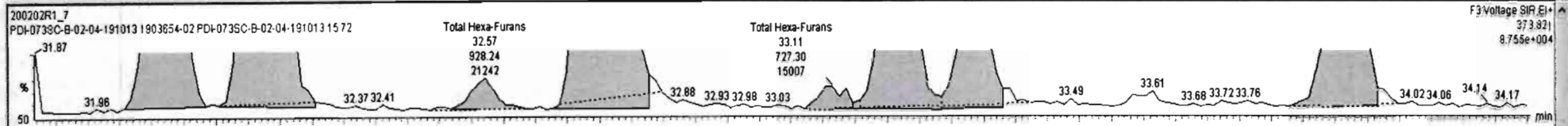


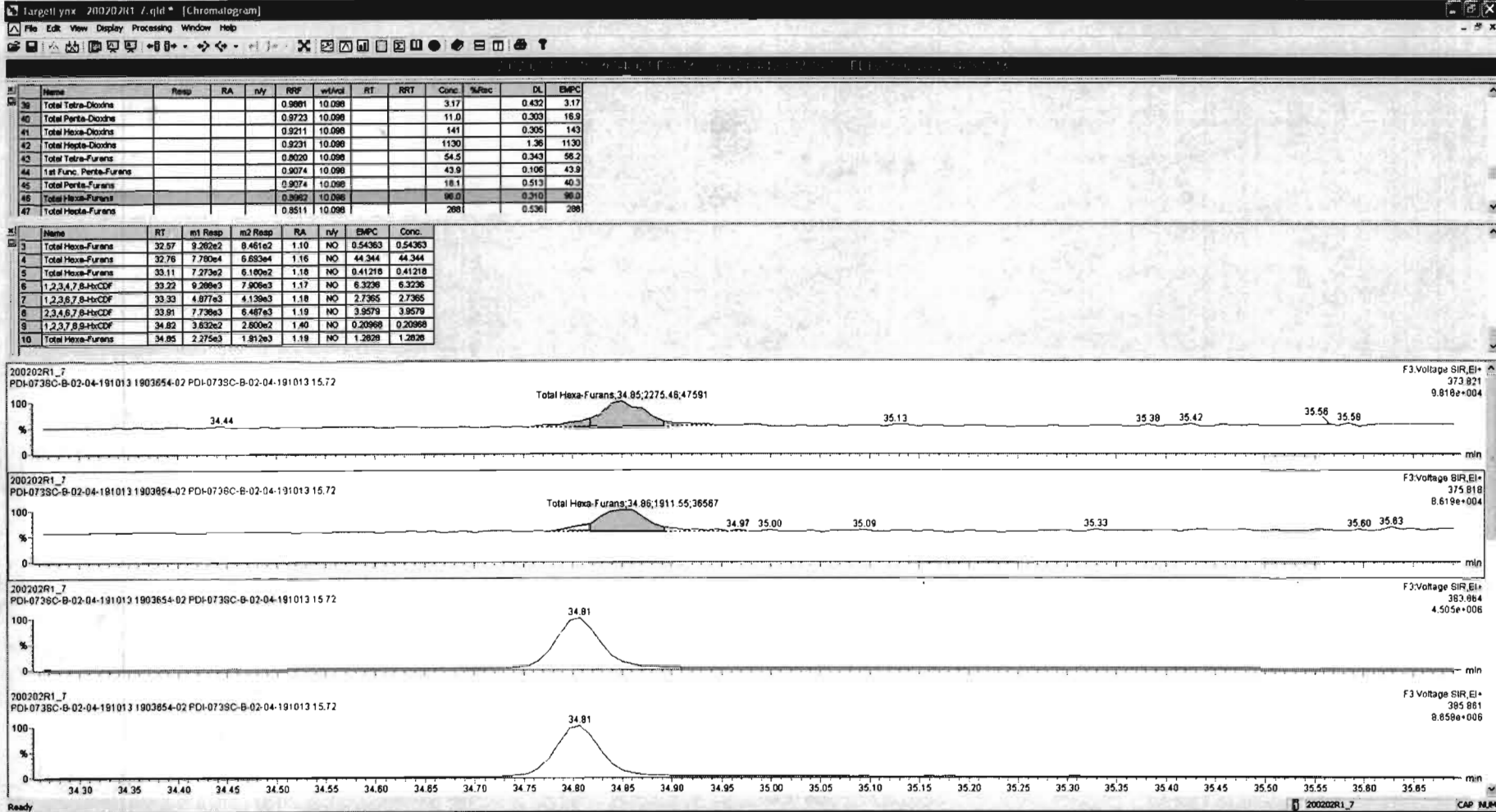
DPE3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9681	10.098			3.17	0.432	3.17	
40 Total Penta-Dioxins				0.9723	10.098			11.0	0.303	16.9	
41 Total Hexa-Dioxins				0.9211	10.098			141	0.305	143	
42 Total Hepta-Dioxins				0.9231	10.098			1130	1.36	1130	
43 Total Tetra-Furans				0.8020	10.098			54.5	0.343	56.2	
44 1st Func. Penta-Furans				0.9074	10.098			43.9	0.106	43.9	
45 Total Penta-Furans				0.9074	10.098			18.1	0.513	40.3	
46 Total Hexa-Furans				0.8982	10.098			95.0	0.310	96.0	
47 Total Hepta-Furans				0.8511	10.098			288	0.536	288	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.08	1.543e4	1.352e4	1.14	NO	8.8712	8.8712
2 Total Hexa-Furans	32.22	4.819e4	4.089e4	1.18	NO	27.324	27.324
3 Total Hexa-Furans	32.57	9.282e2	8.461e2	1.10	NO	0.54363	0.54363
4 Total Hexa-Furans	32.76	7.780e4	6.693e4	1.16	NO	44.344	44.344
5 Total Hexa-Furans	33.11	7.273e2	6.180e2	1.18	NO	0.41218	0.41218
6 1,2,3,4,7,8-HxCDF	33.22	9.288e3	7.906e3	1.17	NO	6.3236	6.3236
7 1,2,3,6,7,8-HxCDF	33.33	4.877e3	4.139e3	1.18	NO	2.7365	2.7365
8 2,3,4,6,7,8-HxCDF	33.91	7.730e3	6.487e3	1.18	NO	3.9579	3.9579
9 1,2,3,7,8-HxCDF	34.02	3.630e2	2.600e2	1.40	NO	0.20968	0.20968





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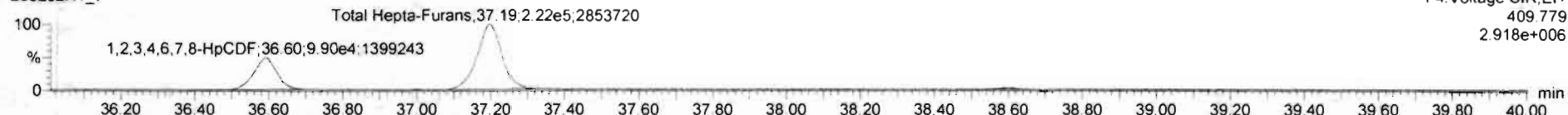
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200202R1_7



200202R1_7

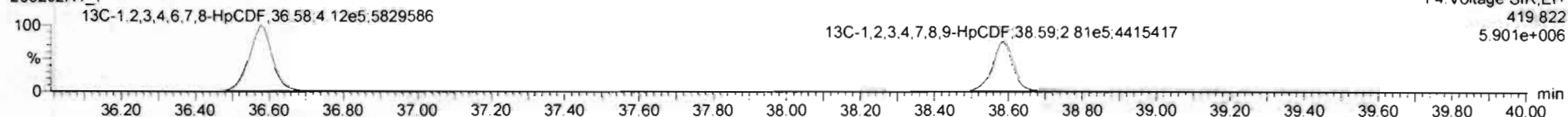


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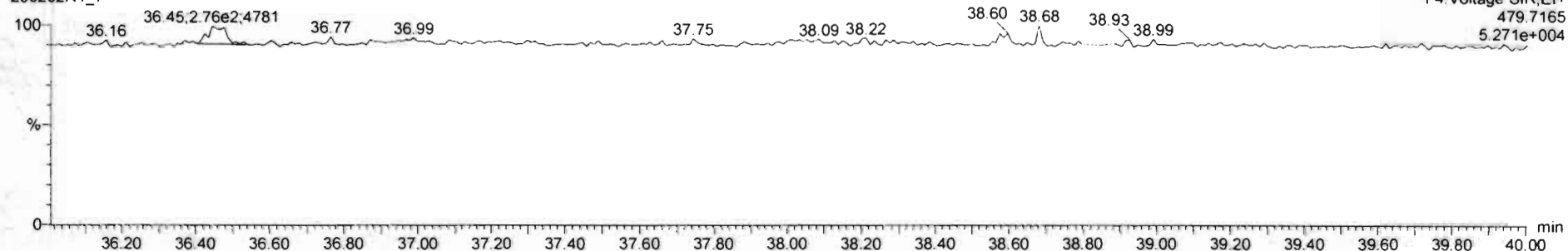


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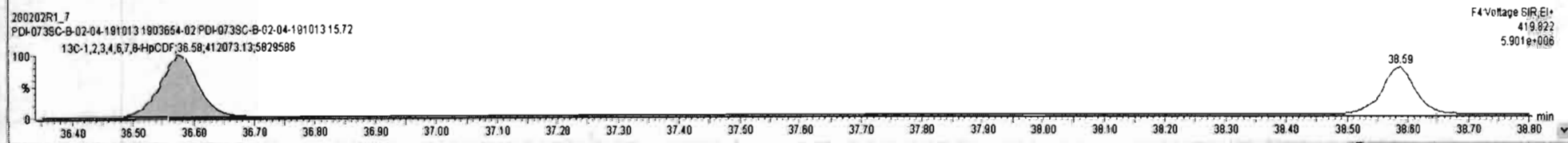
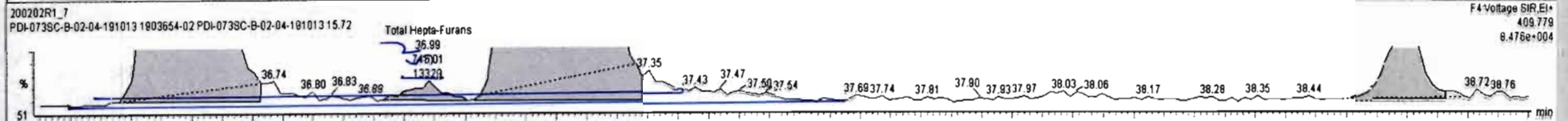
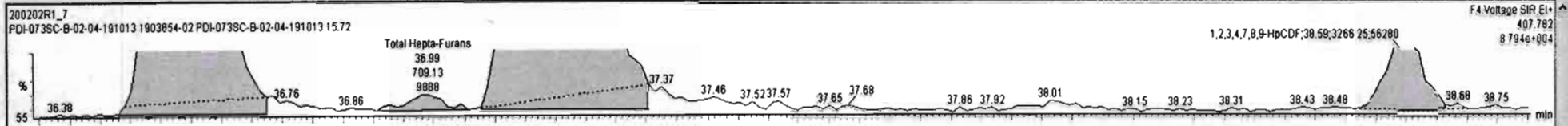
DPE4

200202R1_7



Name	Resp	RA	nHy	RRF	wtAol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9881	10.098			3.17		0.432	3.17
40 Total Penta-Dioxins				0.9723	10.098			11.0		0.303	16.9
41 Total Hexa-Dioxins				0.9211	10.098			141		0.305	143
42 Total Hepta-Dioxins				0.9231	10.098			1130		1.36	1130
43 Total Tetra-Furans				0.9020	10.098			54.5		0.343	56.2
44 1st Func. Penta-Furans				0.9074	10.098			43.9		0.106	43.9
45 Total Penta-Furans				0.9074	10.098			18.1		0.513	40.3
46 Total Hexa-Furans				0.8982	10.098			96.0		0.310	96.0
47 Total Hepta-Furans				0.8511	10.098			292		0.536	292

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.60	8.866e4	1.004e5	0.98	NO	78.528	78.528
2 Total Hepta-Furans	36.99	7.091e2	7.460e2	0.95	NO	0.68245	0.68245
3 Total Hepta-Furans	37.19	2.214e5	2.256e5	0.98	NO	209.62	209.62
4 1,2,3,4,7,8,9-HpCDF	38.59	3.266e3	3.630e3	0.90	NO	3.4642	3.4642

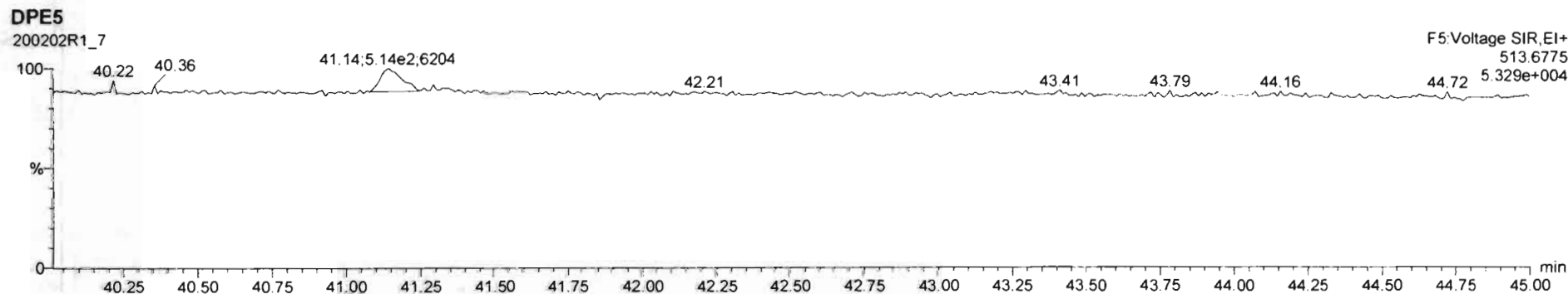
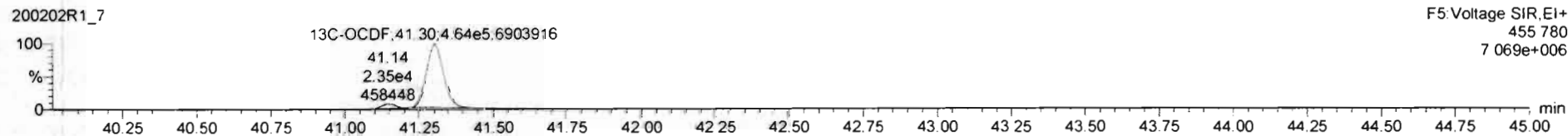
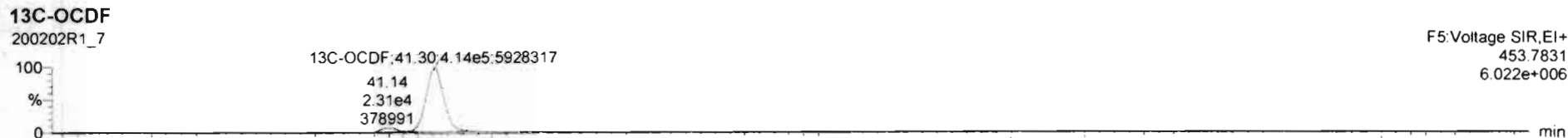
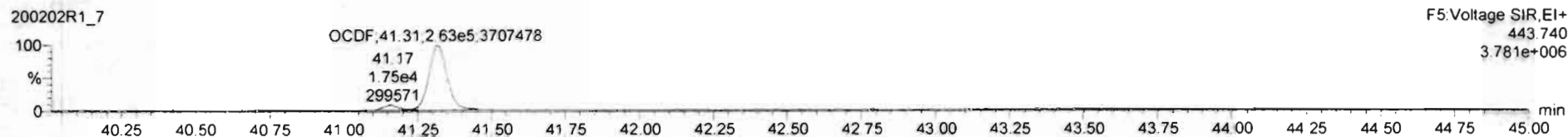
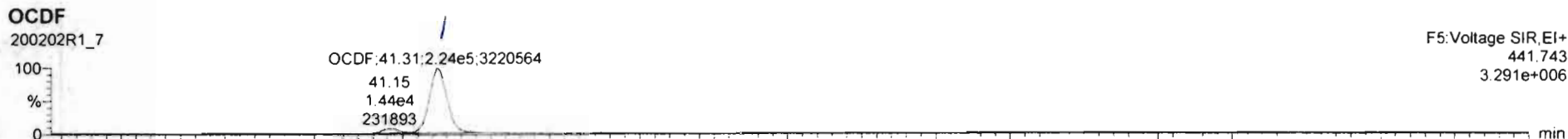


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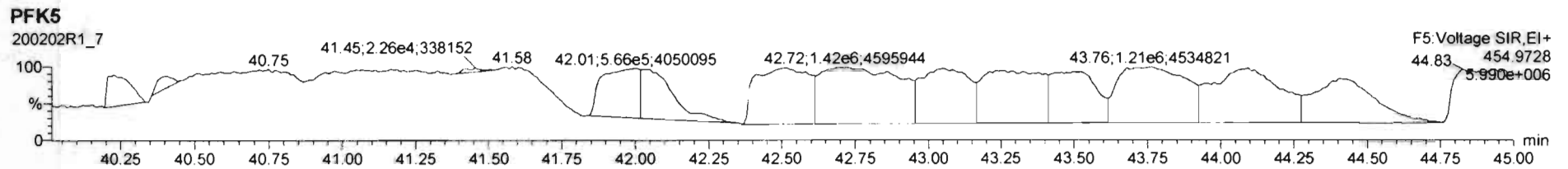
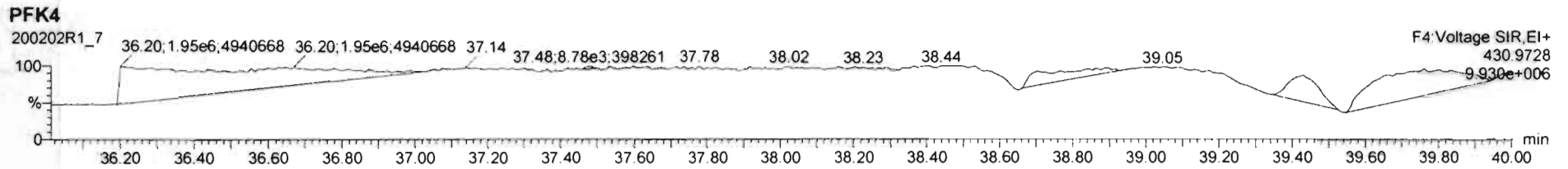
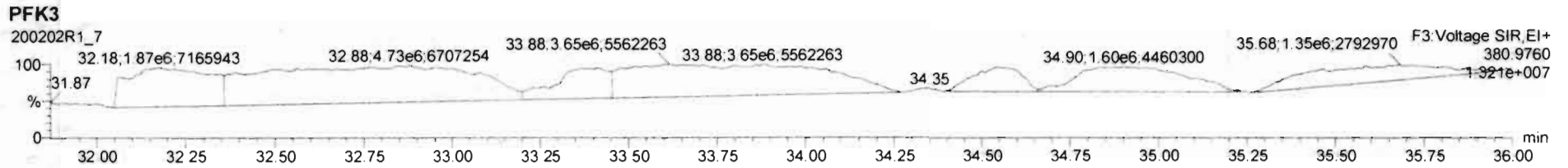
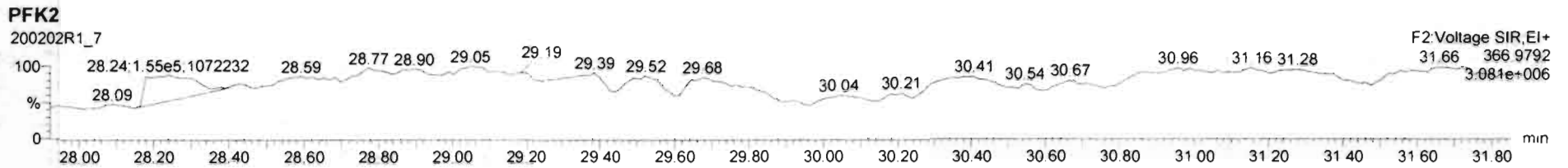
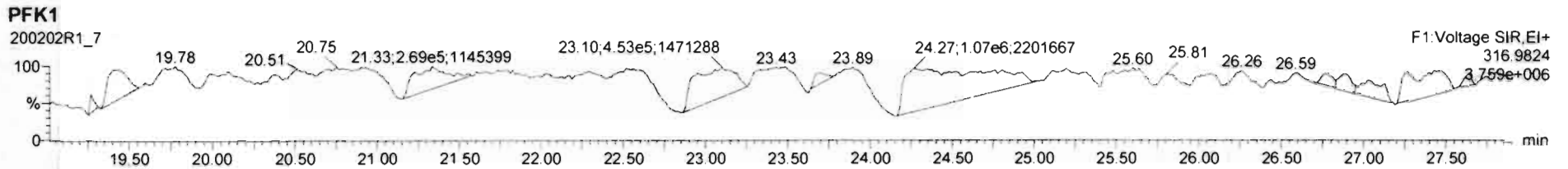
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C7 03/13/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.988	10.091	25.856		1.001				0.237	
2	2 1,2,3,7,8-PeCDD			NO	0.972	10.091	30.703		1.001				0.623	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.091	34.050		1.000				0.333	
4	4 1,2,3,6,7,8-HxCDD	2.30e3	1.66	YES	0.921	10.091	34.147	34.16	1.000	1.000	0.87444		0.302	0.735
5	5 1,2,3,7,8,9-HxCDD	1.18e3	1.77	YES	0.918	10.091	34.458	34.43	1.001	1.000	0.52463		0.265	0.424
6	6 1,2,3,4,6,7,8-HpCDD	5.52e4	1.02	NO	0.923	10.091	38.003	38.00	1.000	1.000	29.651		0.873	29.7
7	7 OCDD	3.68e5	0.88	NO	0.975	10.091	41.165	41.18	1.000	1.000	362.00		1.34	362
8	8 2,3,7,8-TCDF	1.78e3	1.05	YES	0.802	10.091	24.967	24.97	1.001	1.001	0.20678		0.221	0.265
9	9 1,2,3,7,8-PeCDF			NO	0.907	10.091	29.483		1.001				0.585	
10	10 2,3,4,7,8-PeCDF			NO	0.952	10.091	30.422		1.001				0.377	
11	11 1,2,3,4,7,8-HxCDF			NO	0.862	10.091	33.167		1.000				0.287	
12	12 1,2,3,6,7,8-HxCDF			NO	0.841	10.091	33.294		1.000				0.288	
13	13 2,3,4,6,7,8-HxCDF			NO	0.898	10.091	33.904		1.001				0.382	
14	14 1,2,3,7,8,9-HxCDF			NO	0.858	10.091	34.786		1.000				0.386	
15	15 1,2,3,4,6,7,8-HpCDF	9.10e3	0.97	NO	0.851	10.091	36.580	36.54	1.001	1.000	5.2394		0.370	5.24
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.980	10.091	38.567		1.000				0.491	
17	17 OCDF	1.66e4	0.84	NO	0.806	10.091	41.346	41.36	1.000	1.000	18.987		0.721	19.0
18	18 13C-2,3,7,8-TCDD	1.15e6	0.78	NO	1.20	10.091	25.813	25.83	1.026	1.026	115.72	58.4	0.347	
19	19 13C-1,2,3,7,8-PeCDD	7.44e5	0.63	NO	0.967	10.091	30.577	30.68	1.215	1.219	92.758	46.8	0.259	
20	20 13C-1,2,3,4,7,8-HxCDD	4.56e5	1.35	NO	0.874	10.091	34.031	34.04	1.014	1.014	67.554	34.1	0.210	
21	21 13C-1,2,3,6,7,8-HxCDD	5.65e5	1.21	NO	1.05	10.091	34.132	34.15	1.017	1.017	69.974	35.3	0.176	
22	22 13C-1,2,3,7,8,9-HxCDD	4.85e5	1.25	NO	0.974	10.091	34.434	34.42	1.026	1.026	64.503	32.5	0.189	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.00e5	1.05	NO	0.747	10.091	37.991	37.99	1.132	1.132	69.284	35.0	0.254	
24	24 13C-OCDD	4.13e5	0.87	NO	0.707	10.091	40.877	41.17	1.218	1.227	75.818	19.1	0.176	
25	25 13C-2,3,7,8-TCDF	1.44e6	0.75	NO	1.07	10.091	24.990	24.94	0.993	0.991	109.79	55.4	0.606	
26	26 13C-1,2,3,7,8-PeCDF	8.51e5	1.56	NO	1.00	10.091	29.344	29.46	1.166	1.171	69.169	34.9	0.338	
27	27 13C-2,3,4,7,8-PeCDF	1.00e6	1.61	NO	0.962	10.091	30.300	30.39	1.204	1.208	84.678	42.7	0.353	
28	28 13C-1,2,3,4,7,8-HxCDF	6.28e5	0.50	NO	1.05	10.091	33.158	33.17	0.988	0.988	77.602	39.2	0.281	
29	29 13C-1,2,3,6,7,8-HxCDF	6.57e5	0.51	NO	1.19	10.091	33.259	33.28	0.991	0.992	71.492	36.1	0.247	
30	30 13C-2,3,4,6,7,8-HxCDF	5.08e5	0.51	NO	1.07	10.091	33.866	33.87	1.009	1.009	61.771	31.2	0.276	
31	31 13C-1,2,3,7,8,9-HxCDF	4.73e5	0.51	NO	0.922	10.091	34.769	34.79	1.036	1.037	66.442	33.5	0.319	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.04e5	0.42	NO	0.767	10.091	36.514	36.54	1.088	1.089	68.296	34.5	0.226	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.76e5	0.44	NO	0.552	10.091	38.528	38.57	1.148	1.149	64.844	32.7	0.314	
34	34 13C-OCDF	4.31e5	0.93	NO	0.789	10.091	41.112	41.35	1.225	1.232	70.752	17.8	0.158	
35	35 37Cl-2,3,7,8-TCDD	4.63e5			1.18	10.091	25.845	25.84	1.027	1.027	47.499	59.9	0.116	
36	36 13C-1,2,3,4-TCDD	1.64e6	0.79	NO	1.00	10.091	25.080	25.17	1.000	1.000	198.19	100	0.416	
37	37 13C-1,2,3,4-TCDF	2.43e6	0.79	NO	1.00	10.091	23.420	23.57	1.000	1.000	198.19	100	0.646	
38	38 13C-1,2,3,4,6,9-HxCDF	1.53e6	0.52	NO	1.00	10.091	33.520	33.56	1.000	1.000	198.19	100	0.294	
39	39 Total Tetra-Dioxins				0.988	10.091	24.620		0.000				0.108	
40	40 Total Penta-Dioxins				0.972	10.091	29.960		0.000		0.00000		0.255	0.614
41	41 Total Hexa-Dioxins				0.921	10.091	33.635		0.000		8.0497		0.322	9.68
42	42 Total Hepta-Dioxins				0.923	10.091	37.640		0.000		80.621		0.873	80.6
43	43 Total Tetra-Furans				0.802	10.091	23.610		0.000		8.8206		0.221	9.29
44	44 1st Func. Penta-Furans				0.907	10.091	27.090		0.000		6.1425		0.141	6.14
45	45 Total Penta-Furans				0.907	10.091	29.275		0.000		3.1495		0.483	3.54
46	46 Total Hexa-Furans				0.898	10.091	33.555		0.000		4.4019		0.317	6.47
47	47 Total Hepta-Furans				0.851	10.091	37.835		0.000		19.254		0.449	19.3

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-8.qld

Last Altered: Monday, February 10, 2020 15:45:35 Pacific Standard Time

Printed: Monday, February 10, 2020 15:46:08 Pacific Standard Time

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Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	28.52	1.218e4	2.317e4	8.657e2	1.722e3	0.50	YES	0.000e0	0.00000	0.61381	0.623

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	32.56	9.414e4	7.591e4	5.076e3	3.893e3	1.30	NO	8.970e3	3.8460	3.8460	0.322
2 Total Hexa-Dioxins	33.11	9.231e3	9.798e3	6.063e2	6.317e2	0.96	YES	0.000e0	0.00000	0.46964	0.322
3 Total Hexa-Dioxins	33.37	7.937e4	6.191e4	5.458e3	4.345e3	1.26	NO	9.804e3	4.2037	4.2037	0.322
4 1,2,3,6,7,8-HxCDD	34.16	2.423e4	1.209e4	1.434e3	8.617e2	1.66	YES	2.295e3	0.00000	0.73539	0.302
5 1,2,3,7,8,9-HxCDD	34.43	1.441e4	6.886e3	7.536e2	4.254e2	1.77	YES	1.179e3	0.00000	0.42400	0.285

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	36.96	4.908e5	4.866e5	4.805e4	4.680e4	1.03	NO	9.485e4	50.970	50.970	0.873
2 1,2,3,4,6,7,8-HpCDD	38.00	2.754e5	2.716e5	2.792e4	2.725e4	1.02	NO	5.517e4	29.651	29.651	0.873

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-8.qld

Last Altered: Monday, February 10, 2020 15:45:35 Pacific Standard Time

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Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.41	2.713e4	4.527e4	2.331e3	3.171e3	0.74	NO	5.501e3	0.94612	0.94612	0.221
2	Total Tetra-Furans	21.02	6.825e4	9.261e4	6.715e3	8.806e3	0.76	NO	1.552e4	2.6694	2.6694	0.221
3	Total Tetra-Furans	21.98	2.939e4	4.115e4	2.896e3	3.545e3	0.82	NO	6.441e3	1.1078	1.1078	0.221
4	Total Tetra-Furans	22.46	3.038e4	3.554e4	3.565e3	4.370e3	0.82	NO	7.934e3	1.3646	1.3646	0.221
5	Total Tetra-Furans	22.83	1.137e4	1.456e4	4.861e2	6.630e2	0.73	NO	1.149e3	0.19762	0.19762	0.221
6	Total Tetra-Furans	23.31	1.207e4	1.446e4	8.102e2	1.129e3	0.72	NO	1.939e3	0.33347	0.33347	0.221
7	Total Tetra-Furans	23.48	3.996e4	5.020e4	4.033e3	4.816e3	0.84	NO	8.849e3	1.5219	1.5219	0.221
8	Total Tetra-Furans	24.09	1.982e4	3.267e4	1.109e3	1.474e3	0.75	NO	2.584e3	0.44436	0.44436	0.221
9	Total Tetra-Furans	24.85	9.331e3	9.772e3	7.117e2	6.875e2	1.04	YES	0.000e0	0.00000	0.20928	0.221
10	2,3,7,8-TCDF	24.97	1.109e4	1.192e4	9.136e2	8.701e2	1.05	YES	1.784e3	0.00000	0.26488	0.221
11	Total Tetra-Furans	25.32	7.118e3	1.214e4	5.842e2	7.842e2	0.74	NO	1.368e3	0.23535	0.23535	0.221

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.98	2.292e5	1.372e5	1.603e4	1.001e4	1.60	NO	2.604e4	6.1425	6.1425	0.141

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.45	6.398e4	4.415e4	4.904e3	3.190e3	1.54	NO	8.094e3	1.9095	1.9095	0.483
2	Total Penta-Furans	29.05	4.463e4	2.832e4	3.221e3	2.035e3	1.58	NO	5.256e3	1.2400	1.2400	0.483
3	Total Penta-Furans	29.71	2.030e4	1.282e4	1.246e3	6.546e2	1.90	YES	0.000e0	0.00000	0.39376	0.483

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.03	1.870e4	1.588e4	1.064e3	8.285e2	1.28	NO	1.893e3	0.73714	0.73714	0.317
2	Total Hexa-Furans	32.19	6.971e4	5.612e4	2.937e3	2.967e3	0.99	YES	0.000e0	0.00000	2.0668	0.317
3	Total Hexa-Furans	32.72	9.879e4	7.733e4	5.360e3	4.049e3	1.32	NO	9.409e3	3.6647	3.6647	0.317

Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-8.qld

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Printed: Monday, February 10, 2020 15:46:08 Pacific Standard Time

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.54	5.007e4	5.145e4	4.480e3	4.618e3	0.97	NO	9.098e3	5.2394	5.2394	0.370
2	Total Hepta-Furans	37.16	1.032e5	1.046e5	1.019e4	1.030e4	0.99	NO	2.048e4	14.015	14.015	0.449

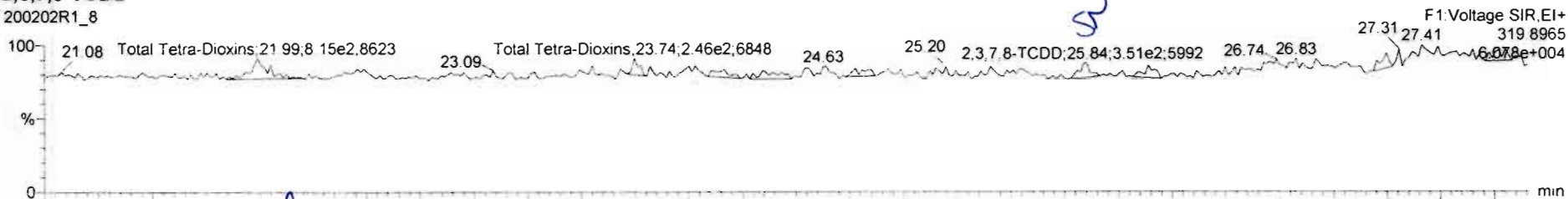
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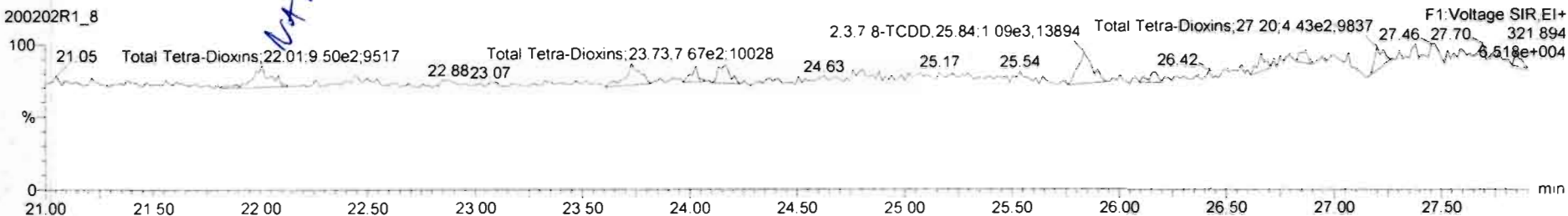
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2,3,7,8-TCDD

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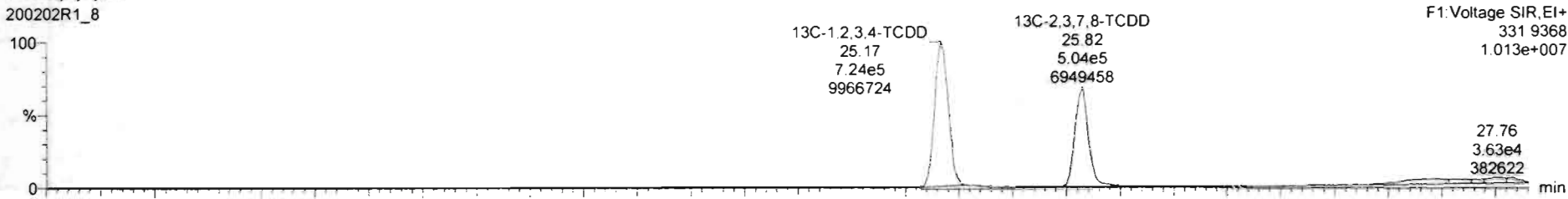


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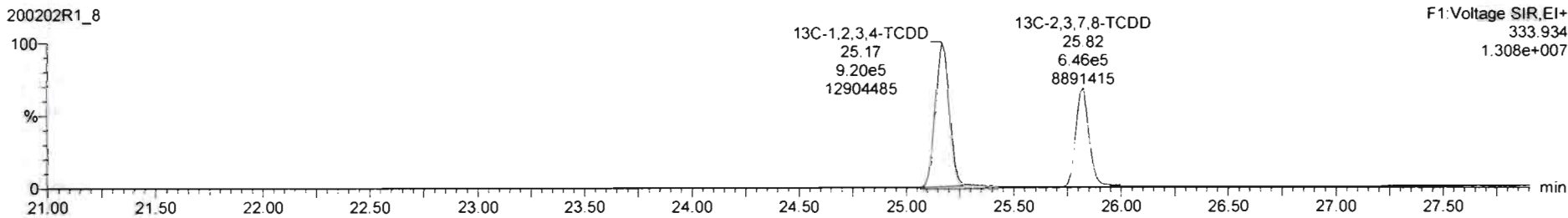


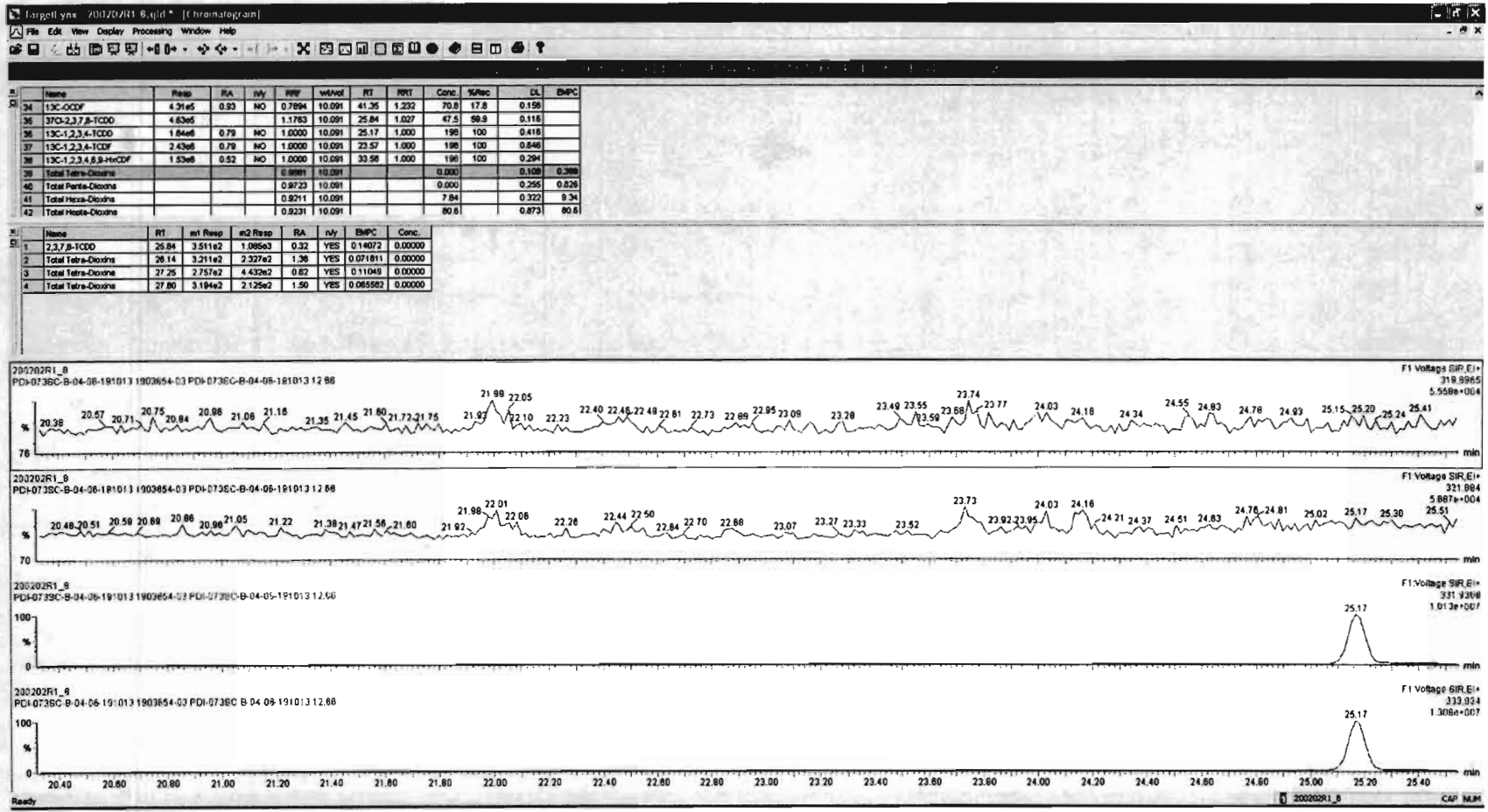
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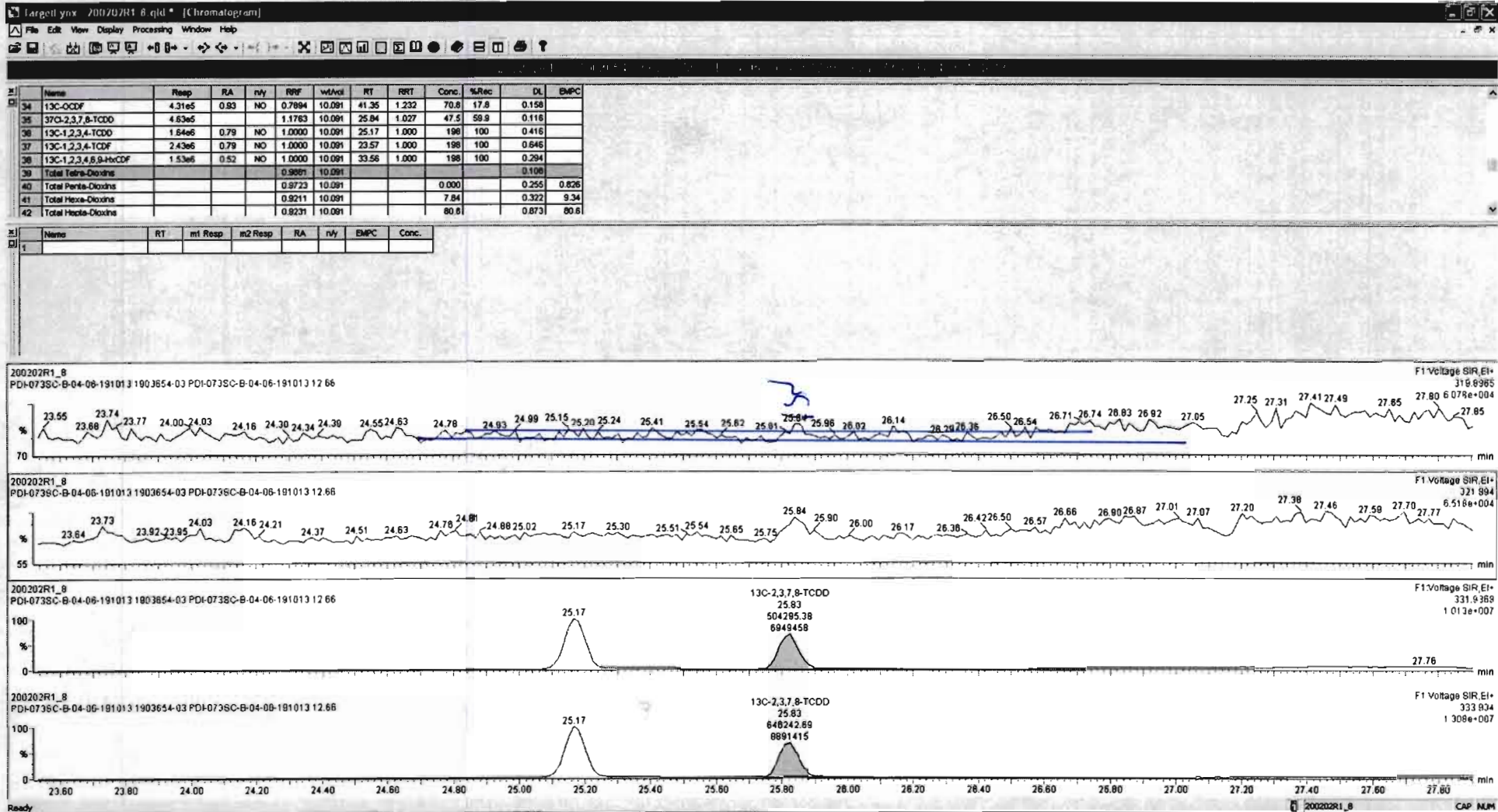
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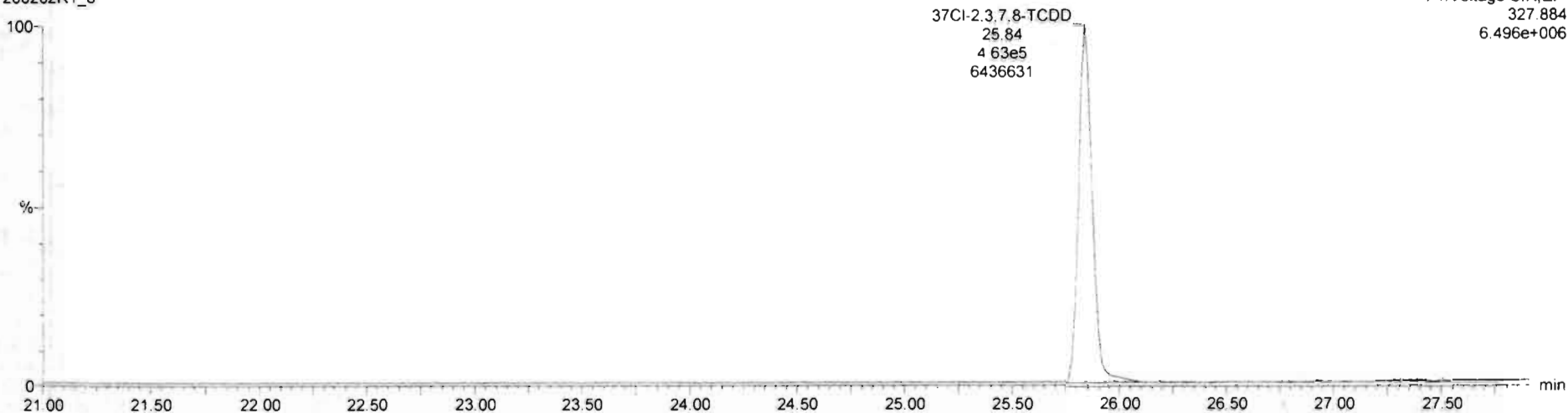


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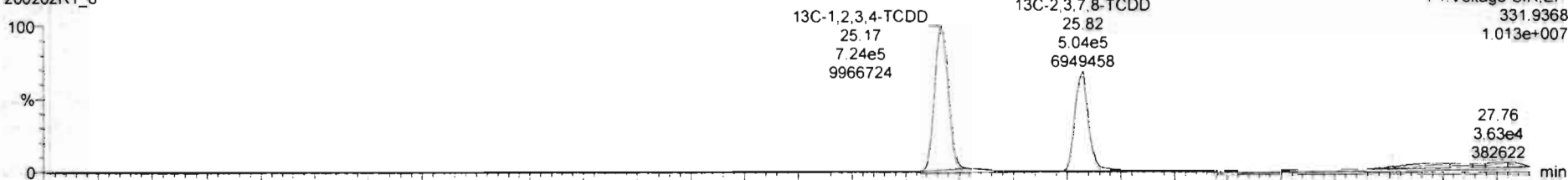
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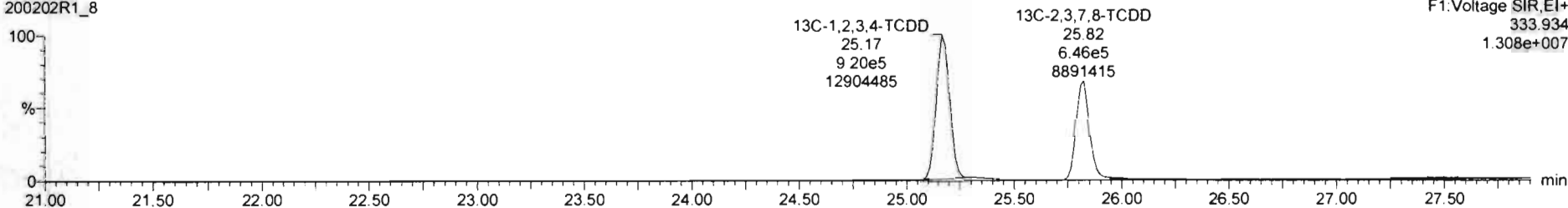
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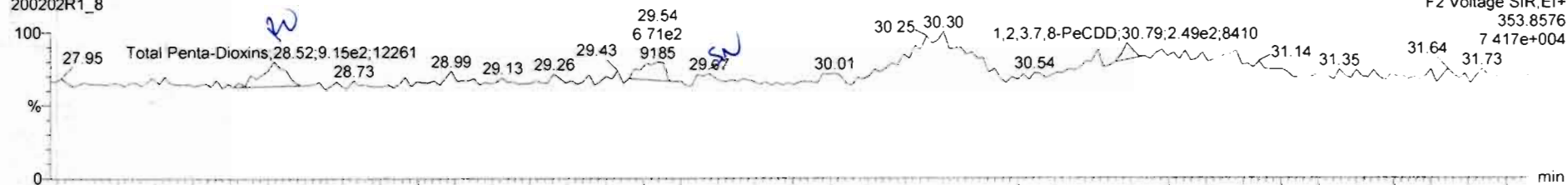
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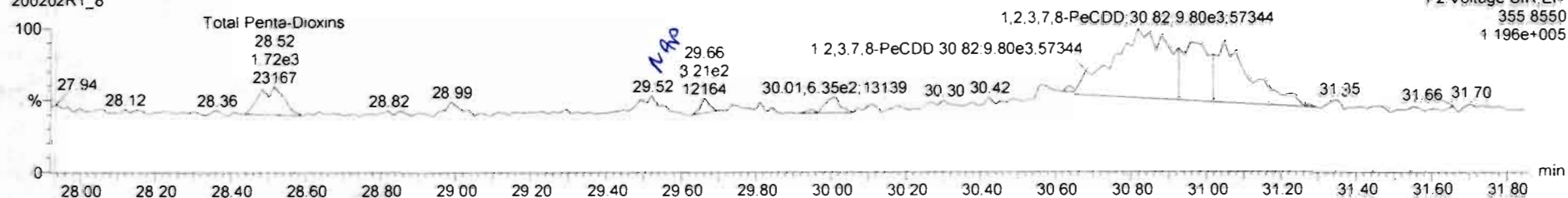
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200202R1_8



200202R1_8

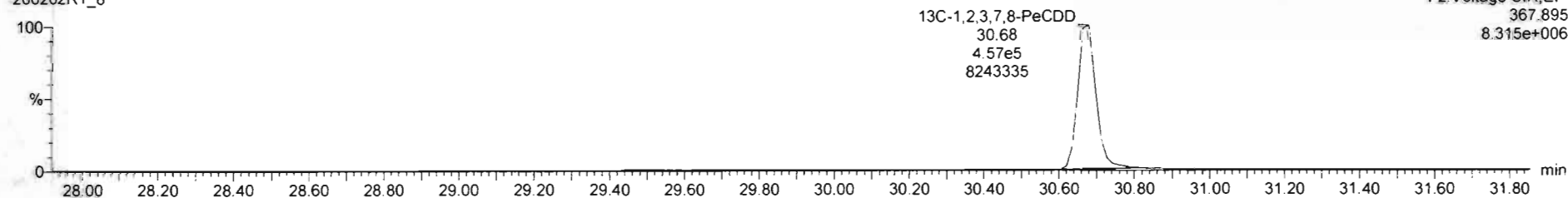


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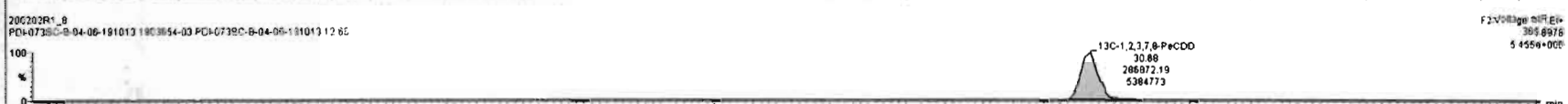
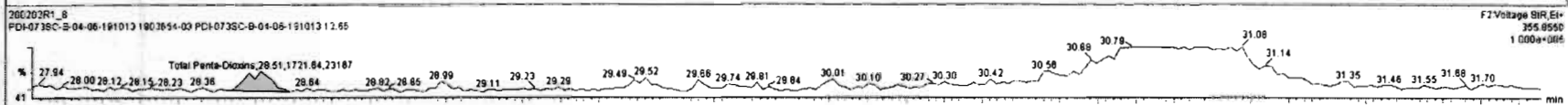
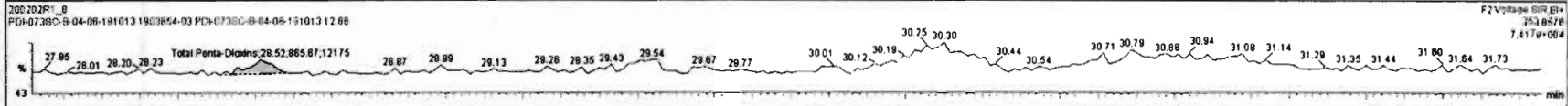


200202R1_8



#	Name	Resp	RA	July	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	BMP
40	Total Penta-Dioxins				0.9723	10.091			0.000	0.255	0.614	
41	Total Hexa-Dioxins				0.9211	10.091			7.84	0.322	0.34	
42	Total Hepta-Dioxins				0.9291	10.091			80.8	0.873	80.6	
43	Total Tetra-Furans				0.8020	10.091			6.80	0.221	9.07	
44	1st Func. Penta-Furans				0.9074	10.091			6.14	0.141	0.14	
45	Total Penta-Furans				0.9074	10.091			3.29	0.483	5.69	
46	Total Hexa-Furans				0.8962	10.091			6.58	0.317	6.86	
47	Total Hepta-Furans				0.8511	10.091			18.3	0.449	19.3	
48	PFOS											
49	PFOS											
50	PFOS											
51	PFOS											

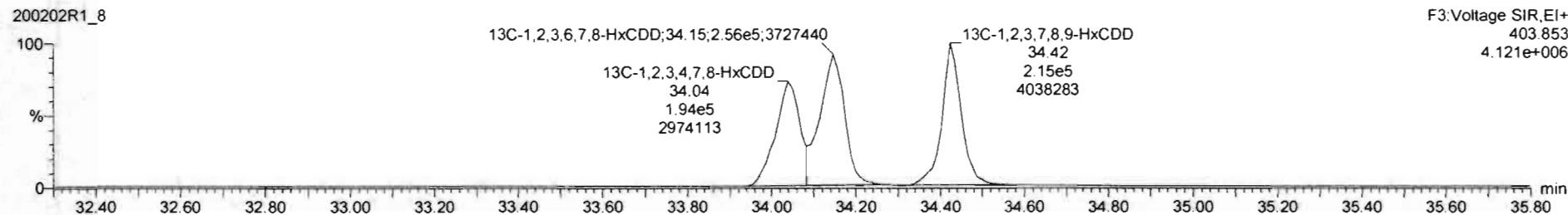
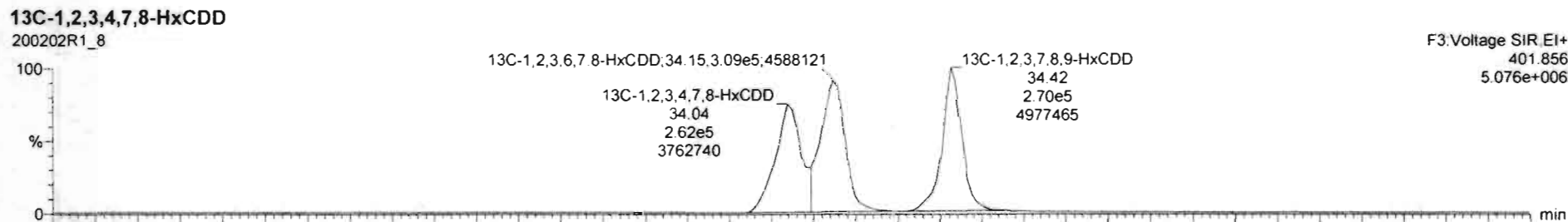
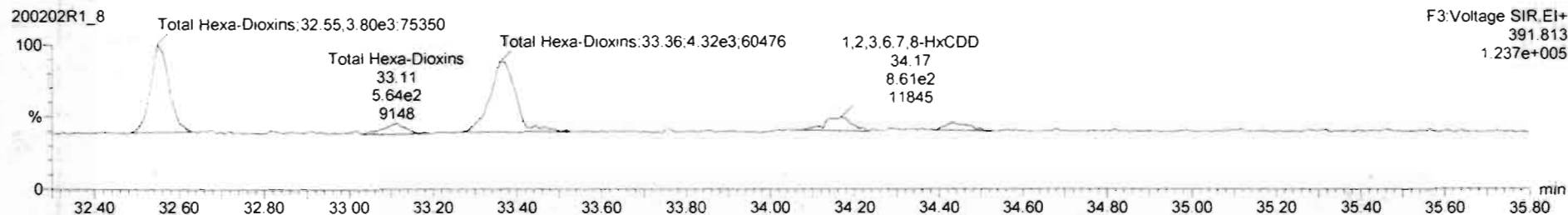
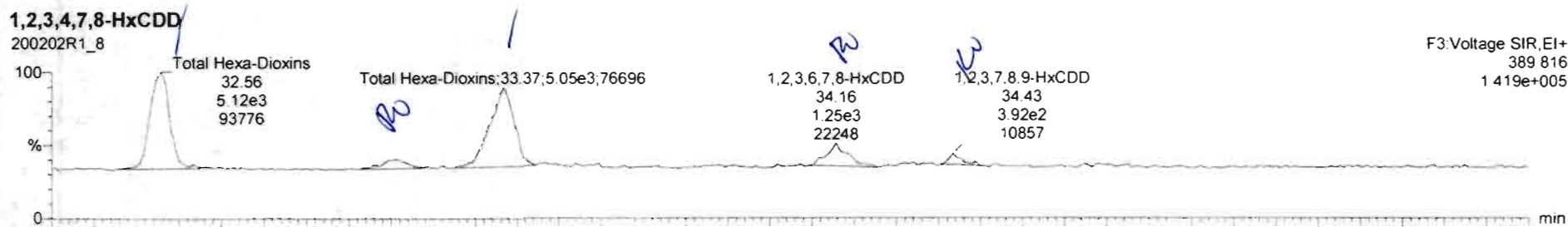
#	Name	RT	w1 Resp	w2 Resp	RA	July	BMP	Conc.
1	Total Penta-Dioxins	28.52	8.657e2	1.722e3	0.50	YES	0.61301	0.00000



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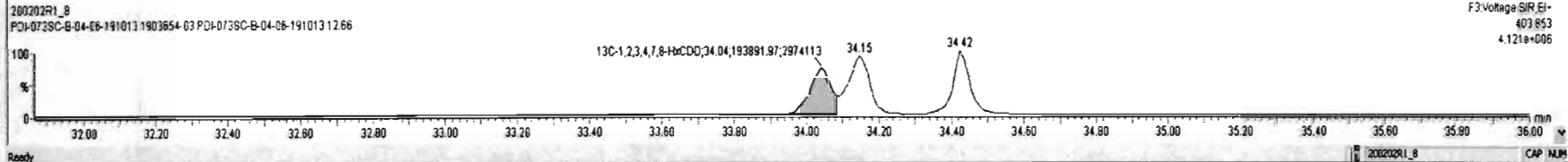
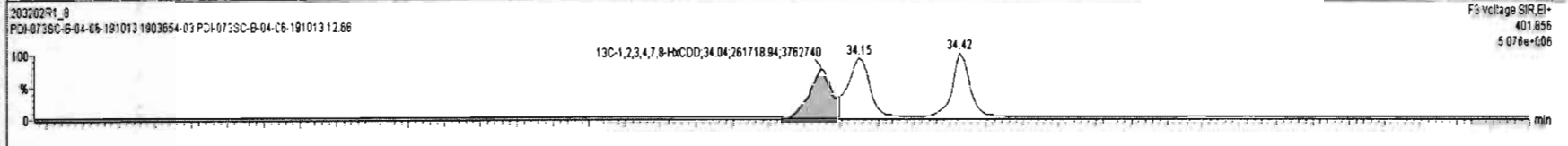
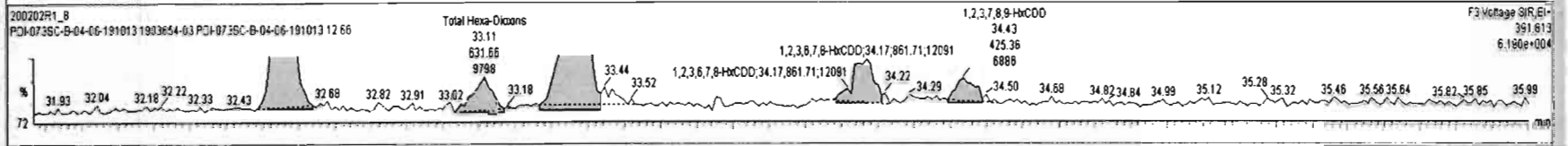
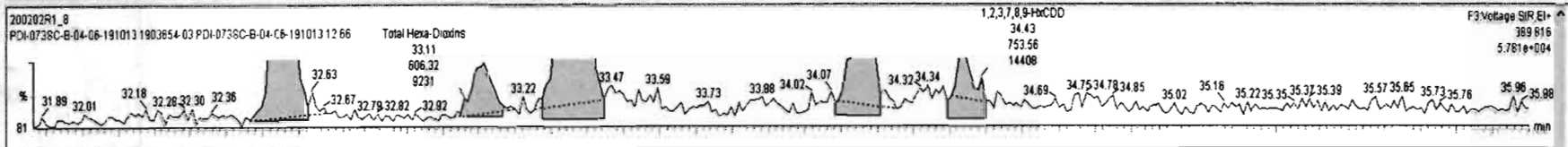
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Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013



Name	Resp	RA	nly	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9723	10.091			0.000	0.255	0.614	
41 Total Hexa-Dioxins				0.9211	10.091			8.05	0.322	9.66	
42 Total Hepta-Dioxins				0.9231	10.091			80.6	0.673	80.6	
43 Total Tetra-Furans				0.8020	10.091			6.80	0.221	9.02	
44 1st Func. Penta-Furans				0.9074	10.091			6.14	0.141	8.14	
45 Total Penta-Furans				0.9074	10.091			3.29	0.483	5.69	
46 Total Hexa-Furans				0.8982	10.091			6.58	0.317	6.86	
47 Total Hepta-Furans				0.8511	10.091			19.3	0.449	19.3	
48 PFK1											
49 PFK2											
50 PFK3											
51											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxine	32.56	5.076e3	3.893e3	1.30	NO	3.8460	3.8460
2 Total Hexa-Dioxine	33.11	6.053e2	6.317e2	0.96	YES	0.46964	0.00000
3 Total Hexa-Dioxine	33.37	5.459e3	4.345e3	1.26	NO	4.2037	4.2037
4 1,2,3,6,7,8-HxCDD	34.16	1.434e3	8.617e2	1.86	YES	0.73539	0.00000
5 1,2,3,7,8-HxCDD	34.43	7.536e2	4.254e2	1.77	YES	0.42400	0.00000



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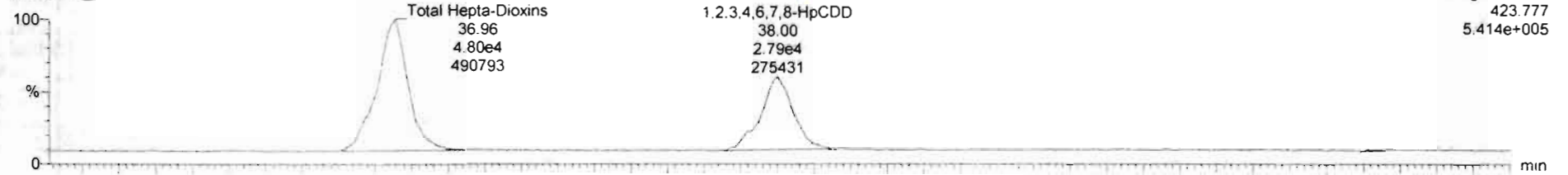
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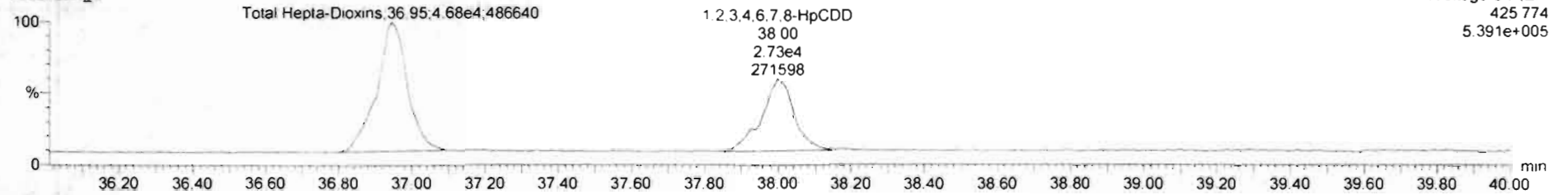
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1,2,3,4,6,7,8-HpCDD

200202R1_8

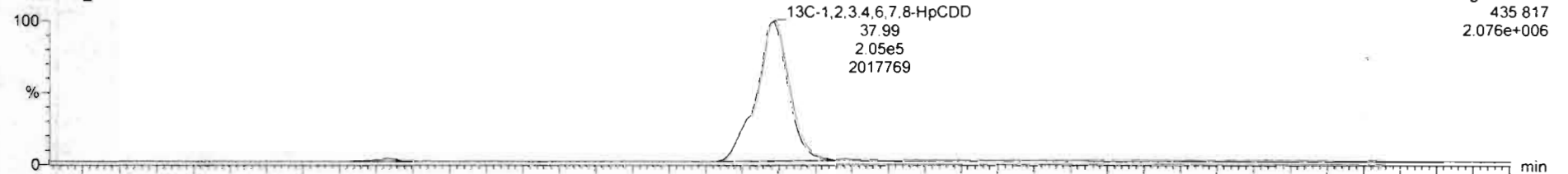


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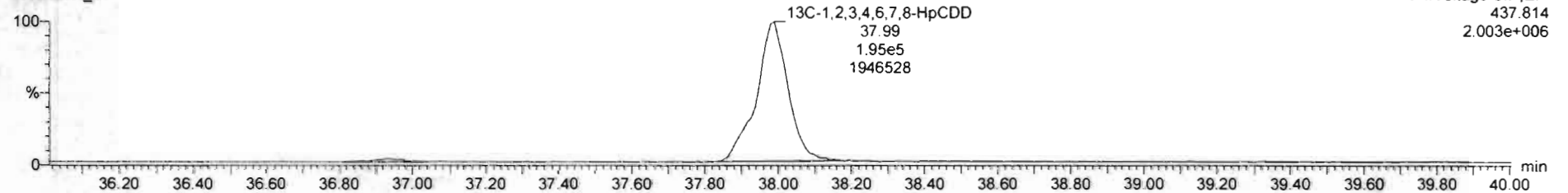


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200202R1_8



200202R1_8



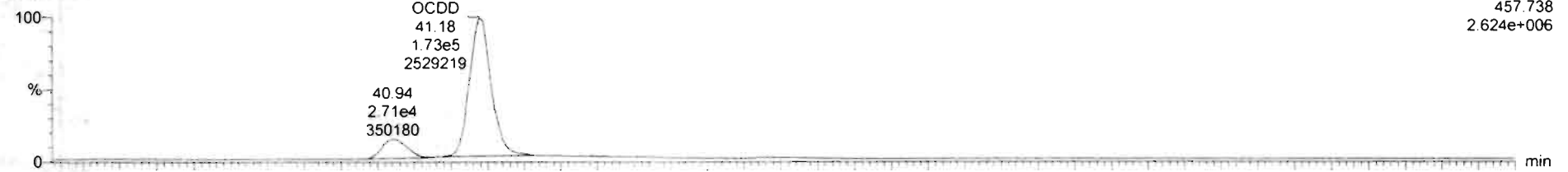
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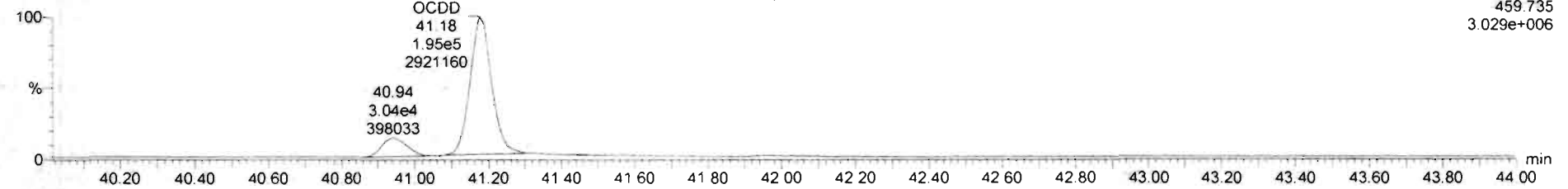
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OCDD

200202R1_8

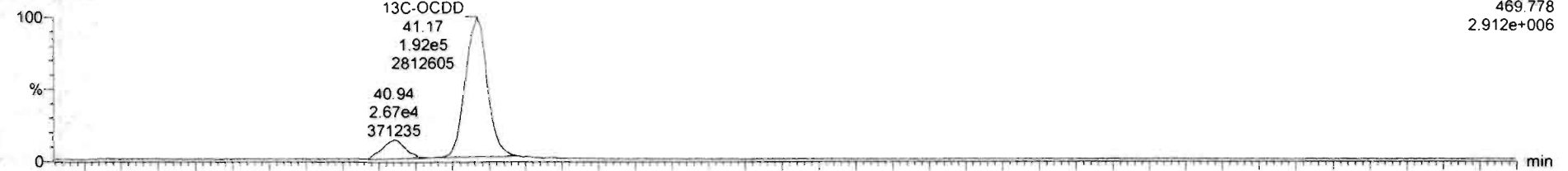


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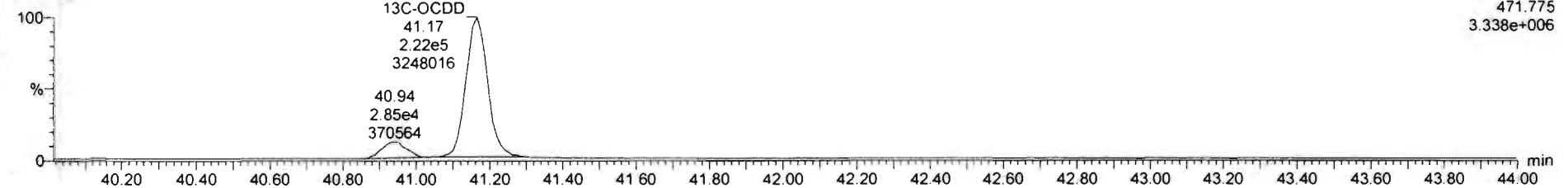


13C-OCDD

200202R1_8



200202R1_8

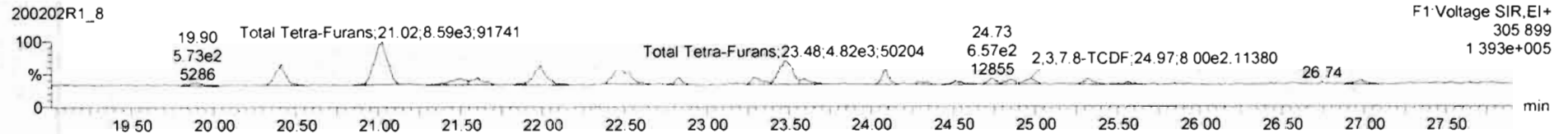
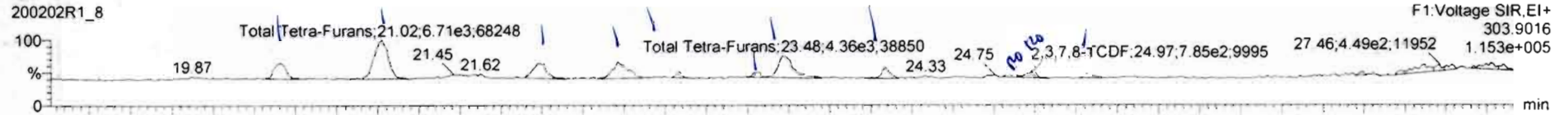


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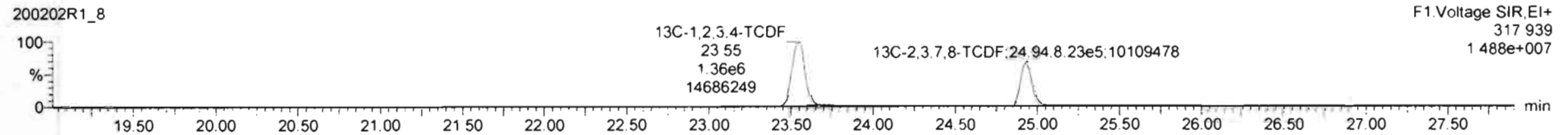
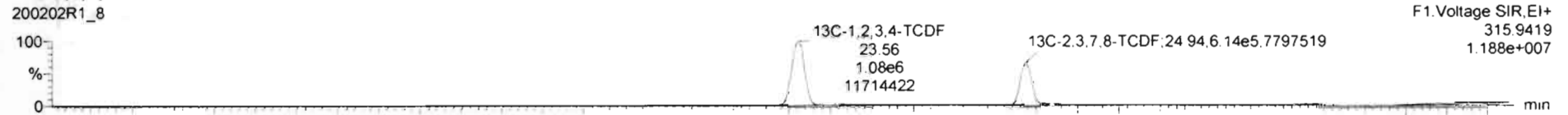
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

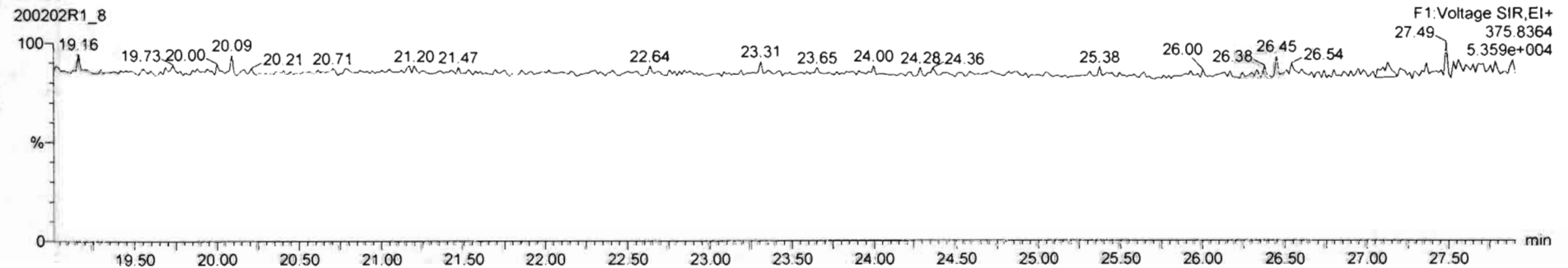
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

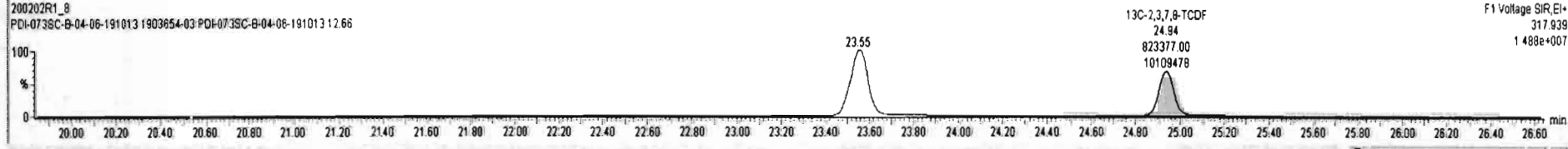
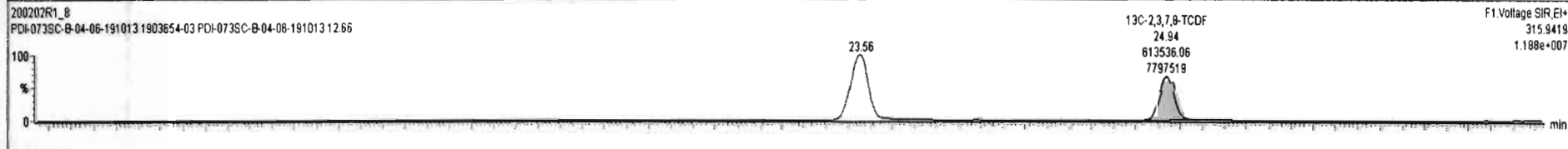
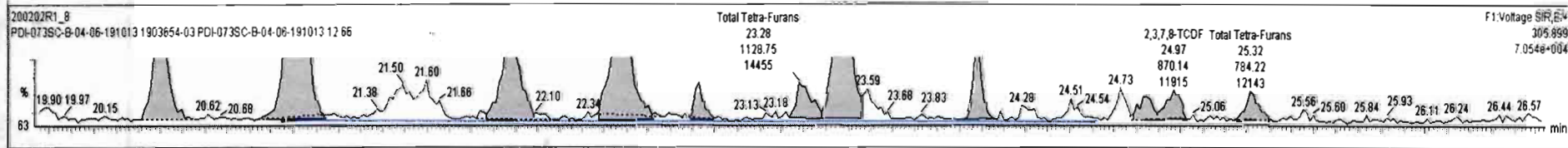
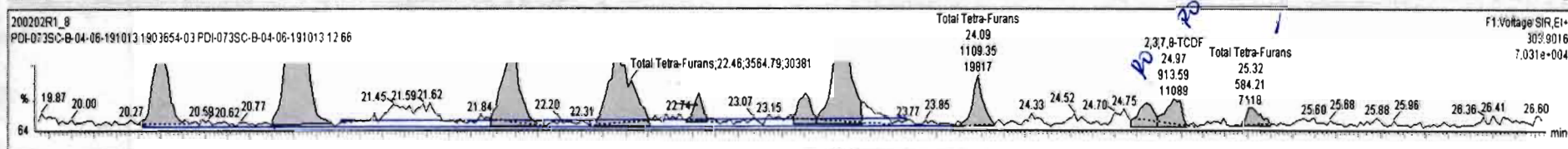


DPE1



Name	Resp	RA	nly	RRF	wtWd	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9723	10.081			0.000	0.255	0.614	
41 Total Hexa-Dioxins				0.9211	10.081			8.05	0.322	9.68	
42 Total Hepta-Dioxins				0.9231	10.081			80.6	0.873	80.6	
43 Total Tetra-Furans				0.8020	10.081			8.82	0.221	9.29	
44 1st Func. Penta-Furans				0.9074	10.081			6.14	0.141	6.14	
45 Total Penta-Furans				0.9074	10.081			3.29	0.483	5.69	
46 Total Hexa-Furans				0.8982	10.081			6.58	0.317	6.86	
47 Total Hepta-Furans				0.8511	10.081			19.3	0.448	19.3	
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.41	2.331e3	3.171e3	0.74	NO	0.94612	0.94612
2 Total Tetra-Furans	21.02	6.715e3	8.806e3	0.76	NO	2.6694	2.6694
3 Total Tetra-Furans	21.98	2.896e3	3.545e3	0.82	NO	1.1078	1.1078
4 Total Tetra-Furans	22.46	3.585e3	4.370e3	0.82	NO	1.3646	1.3646
5 Total Tetra-Furans	22.83	4.861e2	6.630e2	0.73	NO	0.19762	0.19762
6 Total Tetra-Furans	23.31	8.102e2	1.129e3	0.72	NO	0.33347	0.33347
7 Total Tetra-Furans	23.48	4.033e3	4.816e3	0.84	NO	1.5219	1.5219



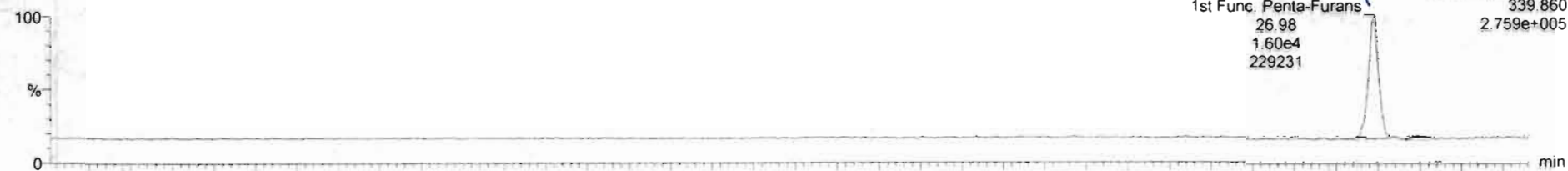
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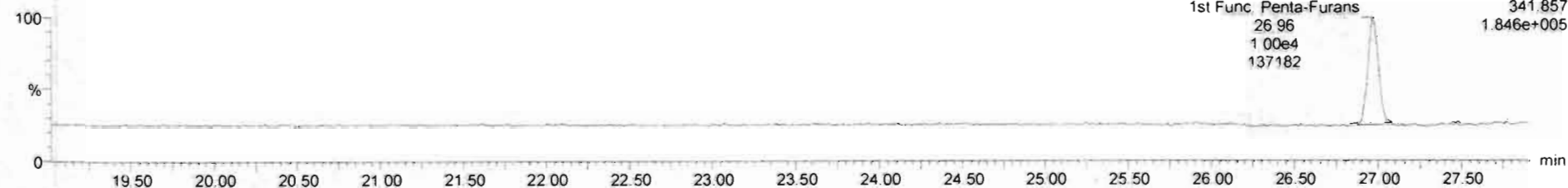
Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

1st Func. Penta-Furans

200202R1_8

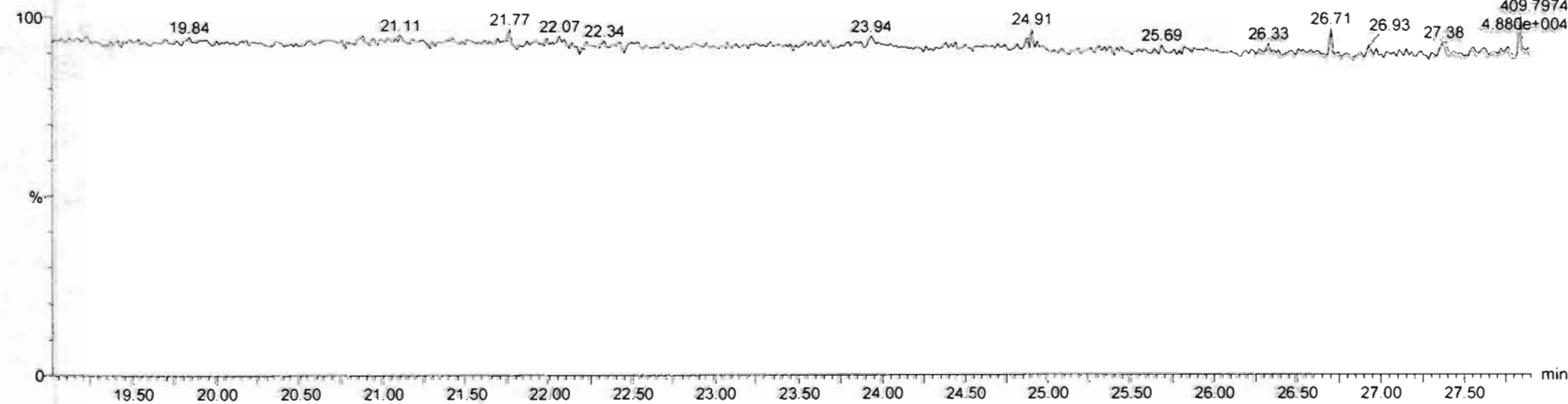


200202R1_8



DPE6

200202R1_8

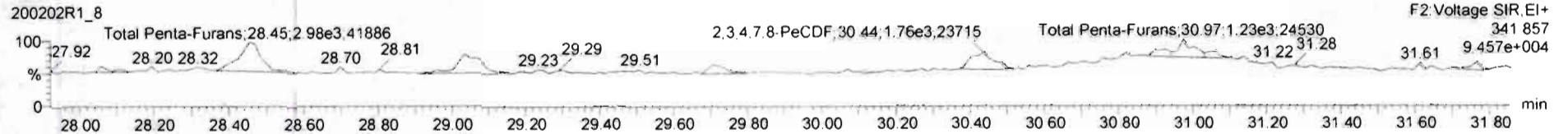
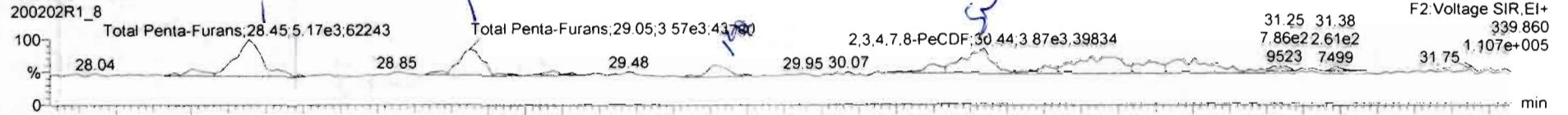


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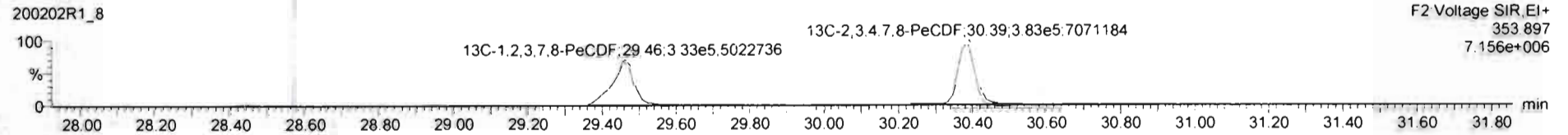
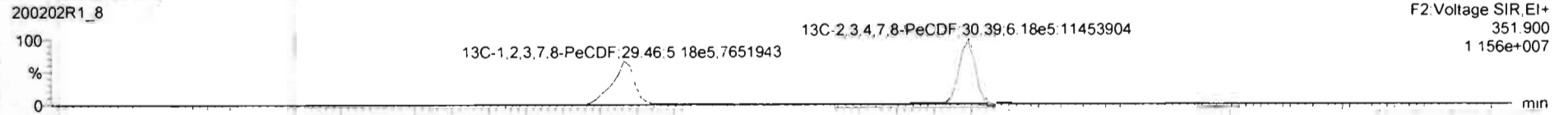
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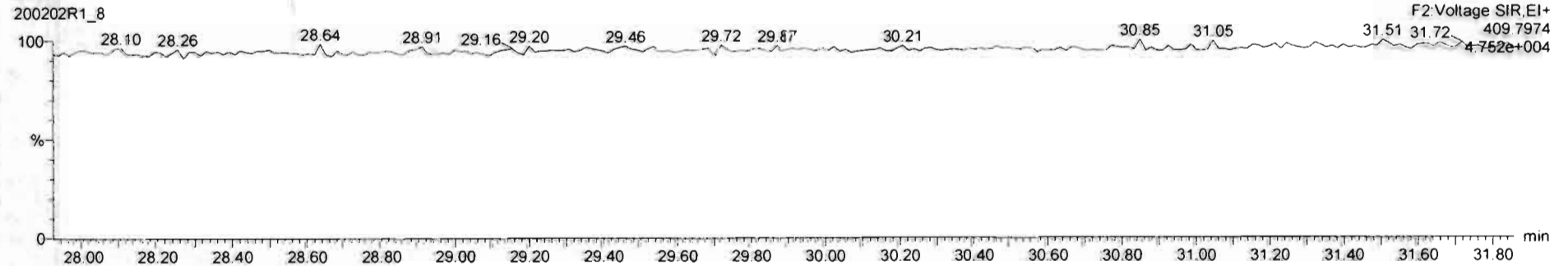
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

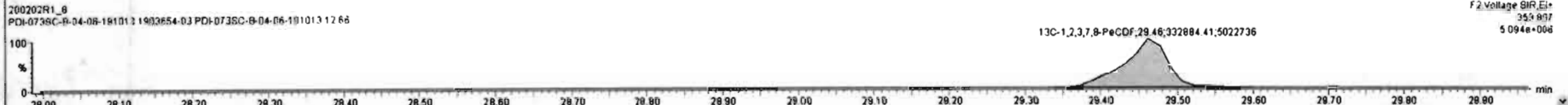
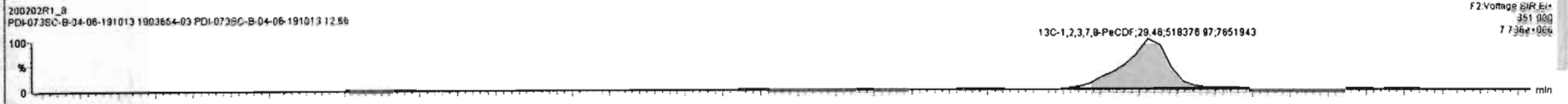
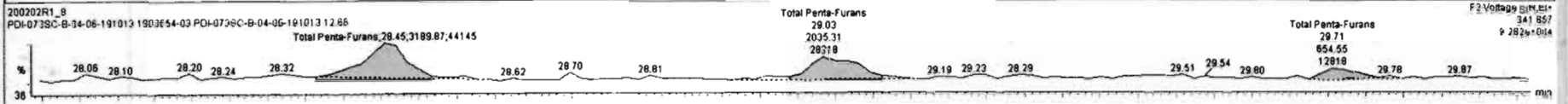
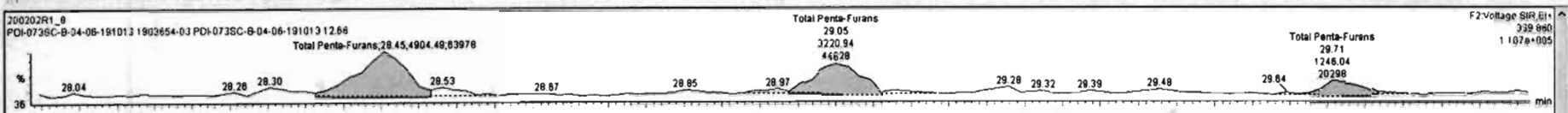


DPE2



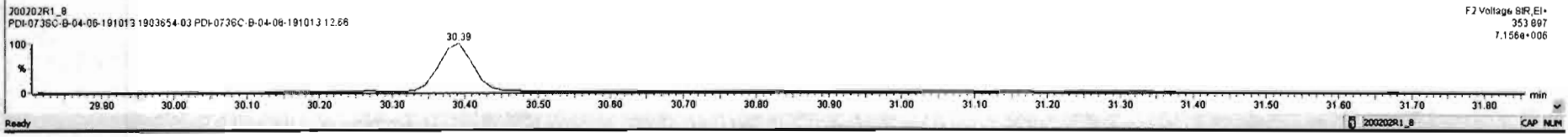
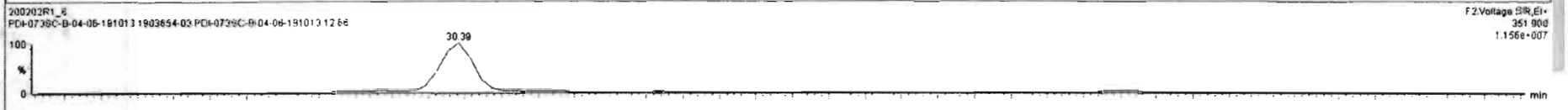
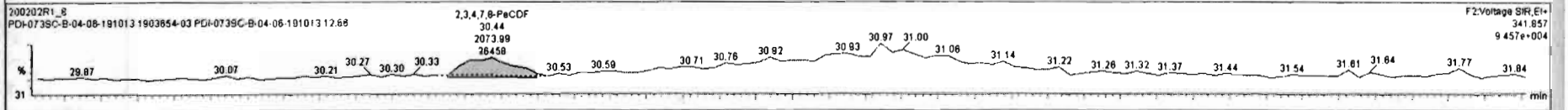
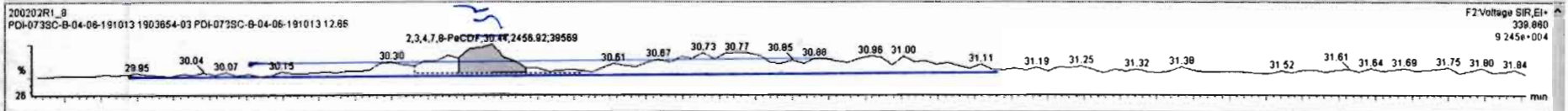
Name	Resp	RA	nly	NPF	wt/vol	RT	RRT	Conc	%rec	DL	EMPC
25 13C-2,3,7,8-TCDF	1.44e6	0.75	NO	1.0653	10.091	24.94	0.991	110	55.4	0.806	
26 13C-1,2,3,7,8-PeCDF	8.51e5	1.56	NO	1.0017	10.091	29.46	1.171	89.2	34.9	0.338	
27 13C-2,3,4,7,8-PeCDF	1.00e6	1.61	NO	0.9617	10.091	30.38	1.208	84.7	42.7	0.353	
28 13C-1,2,3,4,7,8-HxCDF	6.28e5	0.50	NO	1.0492	10.091	33.17	0.988	77.6	39.2	0.281	
29 13C-1,2,3,6,7,8-HxCDF	6.57e5	0.51	NO	1.1899	10.091	33.26	0.992	71.5	36.1	0.247	
30 13C-2,3,4,6,7,8-HxCDF	5.08e5	0.51	NO	1.0662	10.091	33.87	1.009	61.8	31.2	0.276	
31 13C-1,2,3,7,8,9-HxCDF	4.73e5	0.51	NO	0.9224	10.091	34.79	1.037	66.4	33.5	0.319	
32 13C-1,2,3,4,8,7,8-HxCDF	4.04e5	0.42	NO	0.7872	10.091	36.54	1.089	69.3	34.5	0.228	
33 13C-1,2,3,4,7,8,9-HxCDF	2.76e5	0.44	NO	0.5523	10.091	38.57	1.149	64.8	32.7	0.314	
34 13C-OCDF	4.31e5	0.93	NO	0.7894	10.091	41.35	1.232	70.8	17.8	0.158	
35 37Cl-2,3,7,8-TCDD	4.63e5			1.1763	10.091	25.84	1.027	47.5	59.9	0.116	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.45	4.904e3	3.190e3	1.54	NO	1.9095	1.9095
2 Total Penta-Furans	28.05	3.221e3	2.035e3	1.58	NO	1.2400	1.2400
3 Total Penta-Furans	28.71	1.246e3	6.546e2	1.90	YES	0.39378	0.00000
4 2,3,4,7,8-PeCDF	30.44	2.457e3	2.074e3	1.18	YES	0.84143	0.00000



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RR1	Conc.	%Rec	DL	EMPC
26	13C-2,3,7,8-TCDF	1.44e6	0.75	NO	1.0653	10.091	24.94	0.991	110	55.4	0.606	
28	13C-1,2,3,7,8-PeCDF	6.51e5	1.58	NO	1.0017	10.091	28.46	1.171	89.2	34.8	0.208	
27	13C-2,3,4,7,8-PeCDF	1.00e6	1.81	NO	0.9817	10.091	30.39	1.208	84.7	42.7	0.263	
28	13C-1,2,3,4,7,8-HxCDF	6.28e5	0.50	NO	1.0492	10.091	33.17	0.988	77.6	39.2	0.281	
29	13C-1,2,3,6,7,8-HxCDF	6.57e5	0.51	NO	1.1899	10.091	33.28	0.992	71.5	36.1	0.247	
30	13C-2,3,4,6,7,8-HxCDF	5.08e5	0.51	NO	1.0662	10.091	33.87	1.009	61.8	31.2	0.276	
31	13C-1,2,3,7,8,9-HxCDF	4.73e5	0.51	NO	0.8224	10.091	34.79	1.037	66.4	33.5	0.319	
32	13C-1,2,3,4,6,7,8-HpCDF	4.04e5	0.42	NO	0.7672	10.091	36.54	1.088	68.3	34.5	0.226	
33	13C-1,2,3,4,7,8,9-HpCDF	2.76e5	0.44	NO	0.5523	10.091	38.57	1.149	64.8	32.7	0.314	
34	13C-OCDF	4.31e5	0.93	NO	0.7894	10.091	41.35	1.232	70.8	17.8	0.158	
35	37Cl-2,3,7,8-TCDD	4.83e5			1.1763	10.091	25.84	1.027	47.5	59.9	0.116	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.45	4.904e3	3.190e3	1.54	NO	1.9095	1.9095
2	Total Penta-Furans	29.05	3.221e3	2.035e3	1.58	NO	1.2400	1.2400
3	Total Penta-Furans	29.71	1.248e3	6.546e2	1.90	YES	0.39376	0.00000
4	2,3,4,7,8-PeCDF	30.44	2.457e3	2.074e3	1.16	YES	0.84143	0.00000

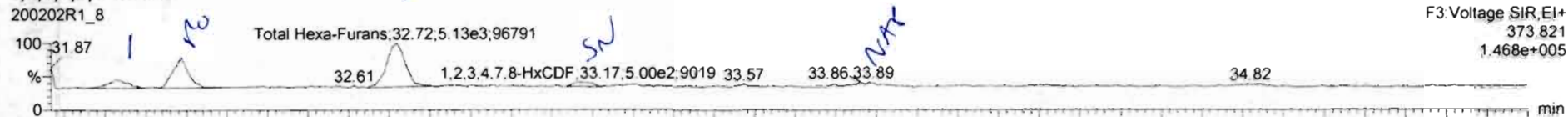


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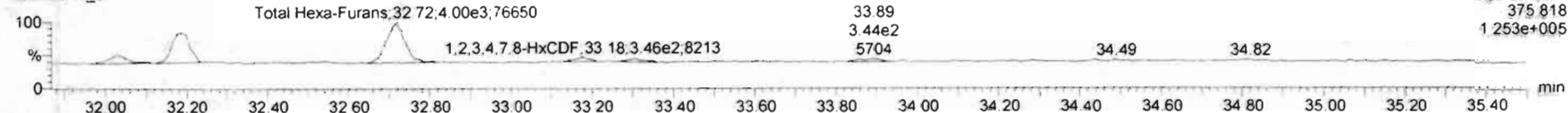
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Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013

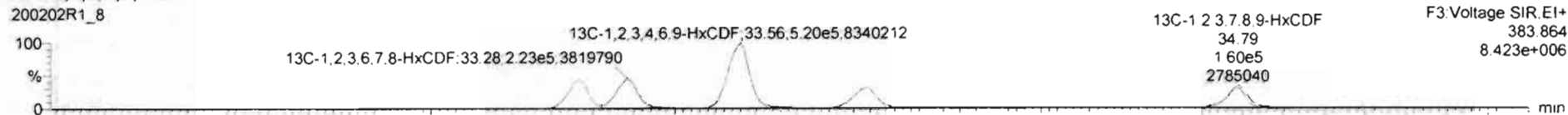
1,2,3,4,7,8-HxCDF



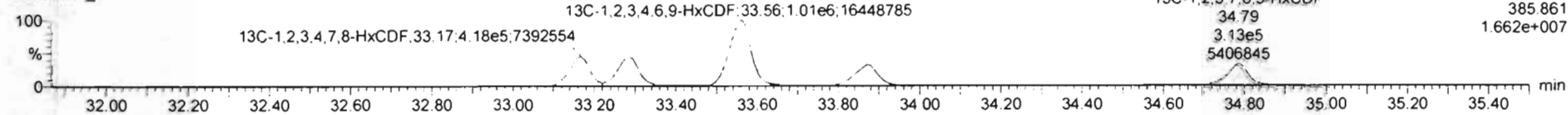
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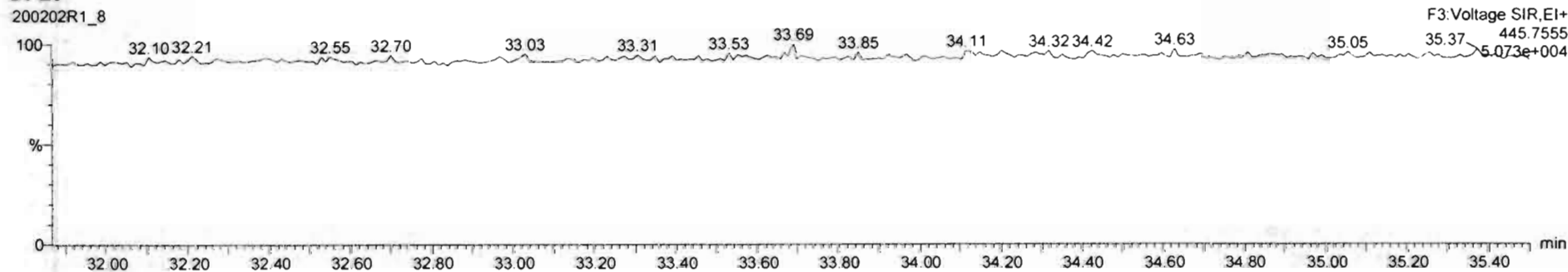
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200202R1_8

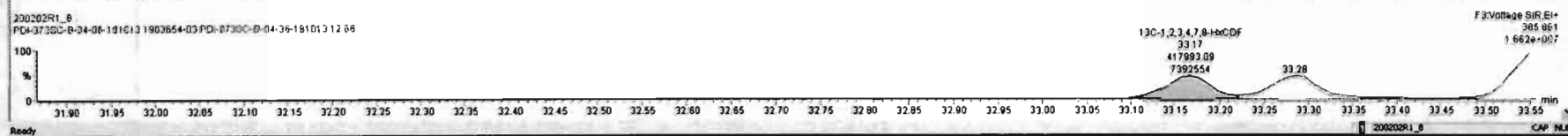
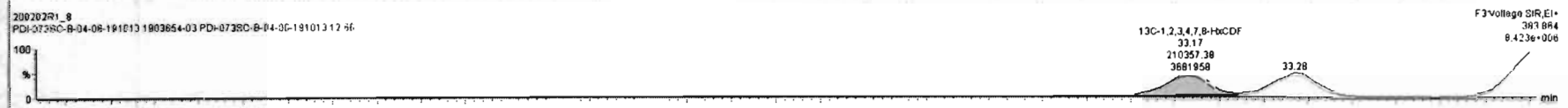
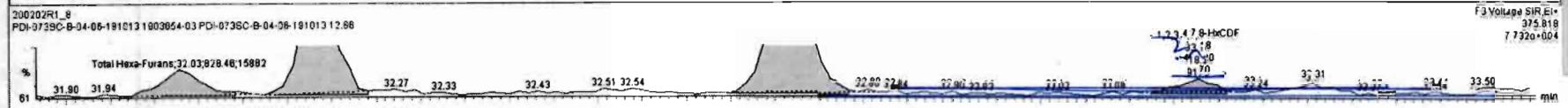
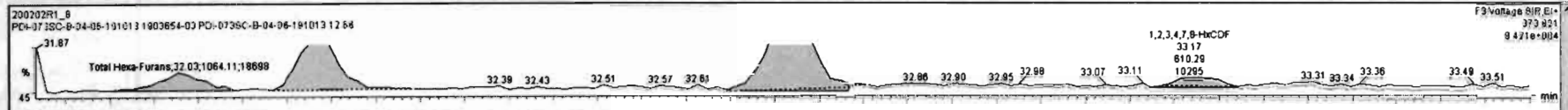


DPE3



Name	Resp	RA	n/y	RP	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8852	10.091			4.80	0.317	0.81	
47 Total Hepta-Furans				0.8511	10.061			19.3	0.448	19.3	
48 PFK1											
48 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
63 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.03	1.084e3	8.285e2	1.28	NO	0.73714	0.73714
2 Total Hexa-Furans	32.19	2.937e3	2.967e3	0.99	YES	2.0668	0.00000
3 Total Hexa-Furans	32.72	5.360e3	4.049e3	1.32	NO	3.6847	3.6847
4 1,2,3,4,7,8-HxCDF	33.17	6.103e2	4.182e2	1.45	YES	0.34266	0.00000



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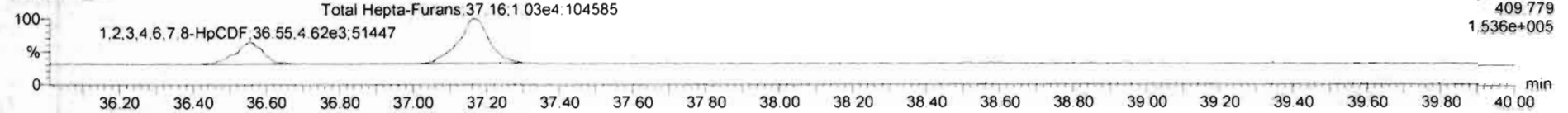
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1,2,3,4,6,7,8-HpCDF

200202R1_8

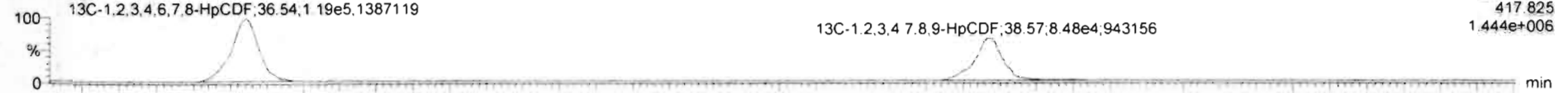


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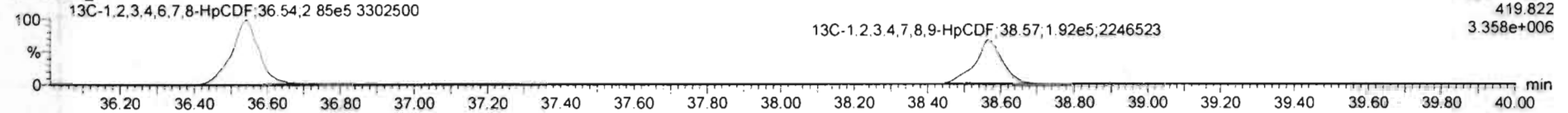


13C-1,2,3,4,6,7,8-HpCDF

200202R1_8

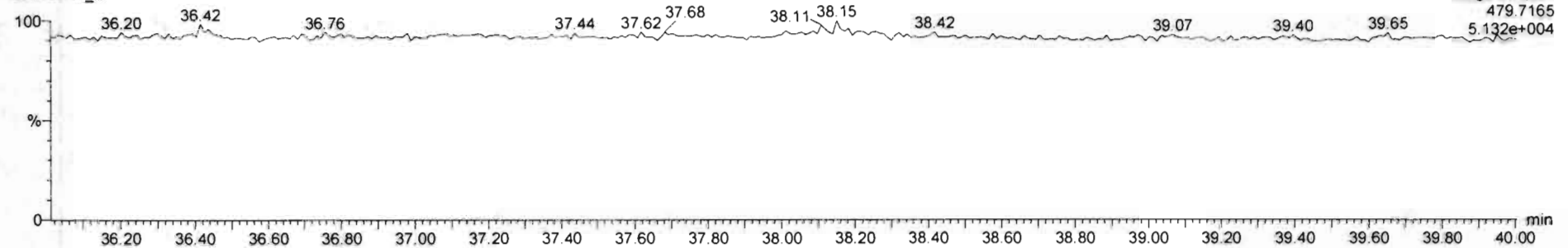


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DPE4

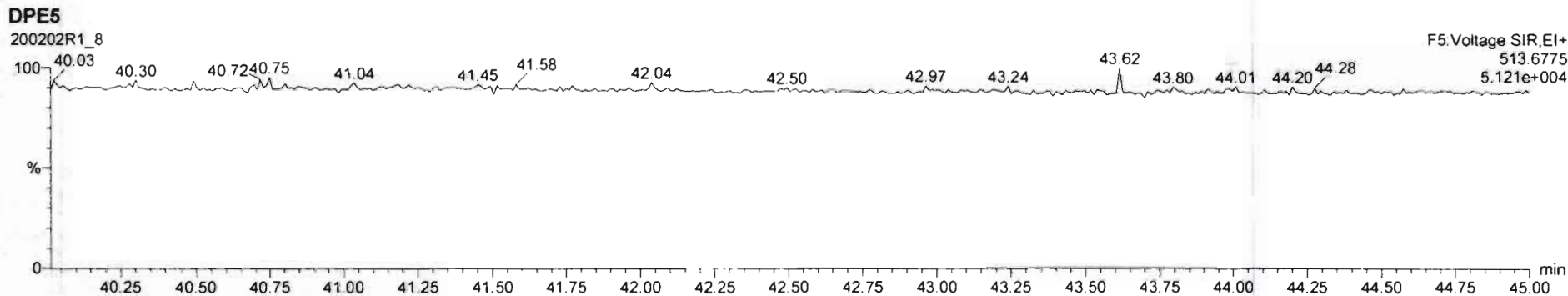
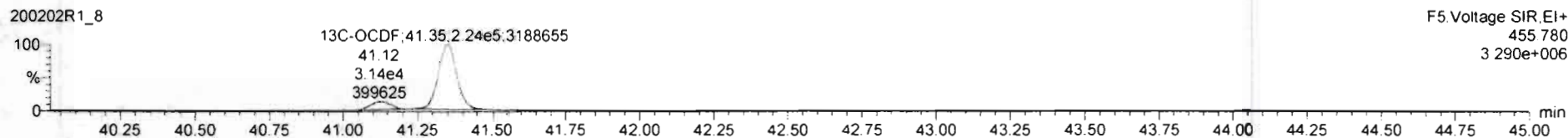
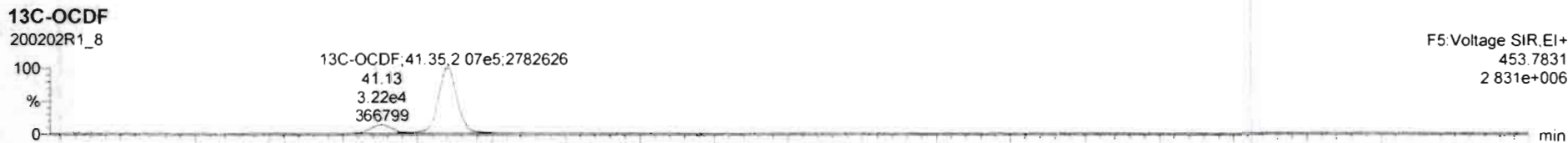
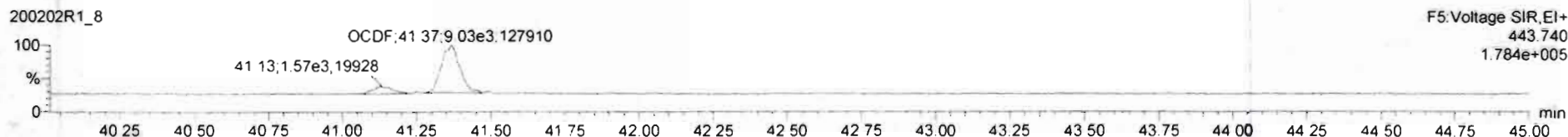
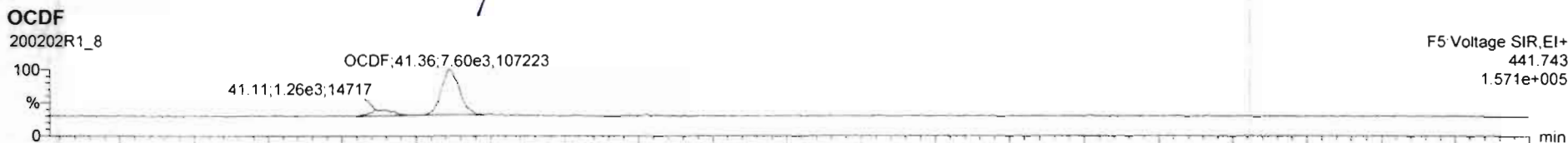
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

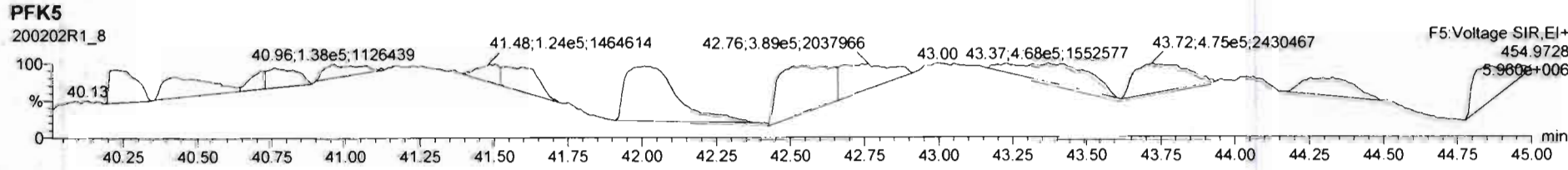
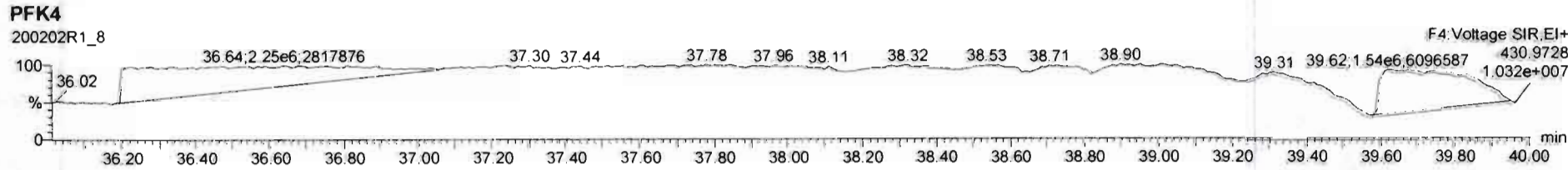
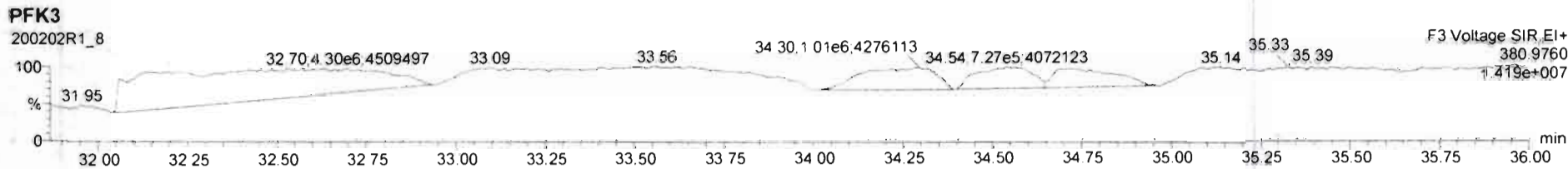
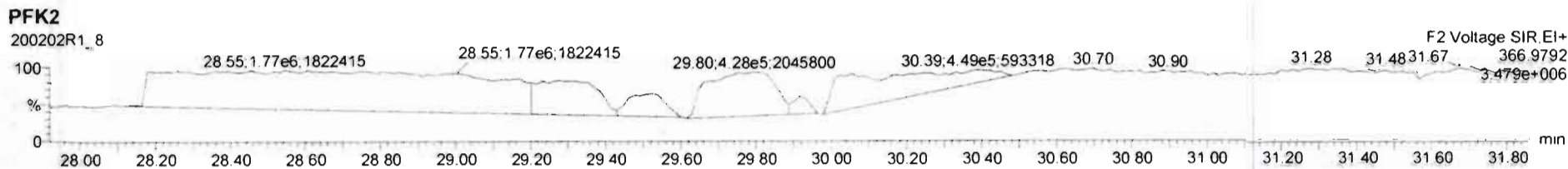
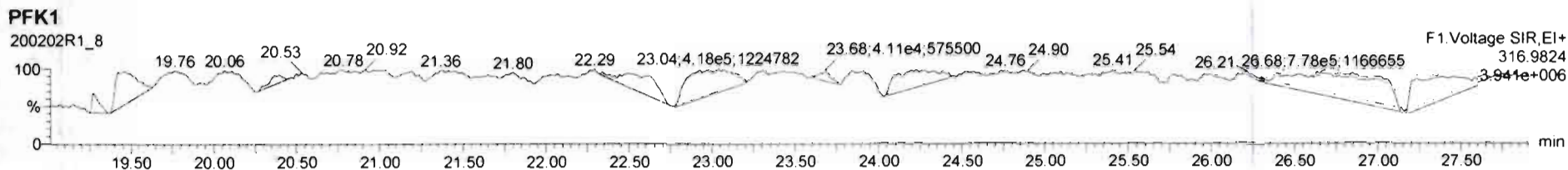
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Name: 200202R1_8, Date: 02-Feb-2020, Time: 15:52:51, ID: 1903654-03 PDI-073SC-B-04-06-191013 12.66, Description: PDI-073SC-B-04-06-191013



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GPB 02/11/2020
C7 03/13/2020

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Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.70e3	0.58	YES	0.988	10.030	25.856	25.85	1.001	1.001	0.44890		0.189	0.380
2	2 1,2,3,7,8-PeCDD	4.93e3	0.71	NO	0.972	10.030	30.703	30.70	1.001	1.001	1.1588		0.424	1.16
3	3 1,2,3,4,7,8-HxCDD	8.70e2	1.06	NO	1.07	10.030	34.040	34.05	1.000	1.001	0.25561		0.204	0.256
4	4 1,2,3,6,7,8-HxCDD	5.36e3	1.26	NO	0.921	10.030	34.136	34.16	1.000	1.001	1.5784		0.216	1.58
5	5 1,2,3,7,8,9-HxCDD	2.45e3	1.30	NO	0.918	10.030	34.447	34.44	1.001	1.001	0.81066		0.239	0.811
6	6 1,2,3,4,6,7,8-HpCDD	3.25e4	1.02	NO	0.923	10.030	37.992	38.00	1.000	1.001	13.376		0.507	13.4
7	7 OCDD	4.48e5	0.89	NO	0.975	10.030	41.123	41.13	1.000	1.000	295.30		0.604	295
8	8 2,3,7,8-TCDF	4.41e3	0.84	NO	0.802	10.030	24.967	24.97	1.001	1.001	0.71943	OK	0.179	0.719
9	9 1,2,3,7,8-PeCDF	2.06e3	1.54	NO	0.907	10.030	29.467	29.45	1.001	1.000	0.41197		0.479	0.412
10	10 2,3,4,7,8-PeCDF	1.42e4	1.42	NO	0.952	10.030	30.422	30.42	1.001	1.001	2.5217		0.353	2.52
11	11 1,2,3,4,7,8-HxCDF	6.19e3	1.17	NO	0.862	10.030	33.167	33.19	1.000	1.001	1.7618		0.343	1.76
12	12 1,2,3,6,7,8-HxCDF	4.68e3	1.08	NO	0.841	10.030	33.294	33.29	1.000	1.000	1.3403		0.356	1.34
13	13 2,3,4,6,7,8-HxCDF	8.21e3	1.21	NO	0.898	10.030	33.904	33.89	1.001	1.001	2.9392		0.453	2.94
14	14 1,2,3,7,8,9-HxCDF	8.47e2	1.30	NO	0.858	10.030	34.775	34.79	1.000	1.000	0.33352		0.528	0.334
15	15 1,2,3,4,6,7,8-HpCDF	1.01e4	1.02	NO	0.851	10.030	36.580	36.55	1.001	1.000	4.5400		0.230	4.54
16	16 1,2,3,4,7,8,9-HpCDF	9.53e2	0.97	NO	0.980	10.030	38.567	38.57	1.000	1.000	0.54173		0.286	0.542
17	17 OCDF	6.19e3	1.01	NO	0.806	10.030	41.304	41.33	1.000	1.001	4.5230		0.426	4.52
18	18 13C-2,3,7,8-TCDD	1.21e6	0.78	NO	1.20	10.030	25.814	25.83	1.026	1.026	106.57	53.4	0.298	
19	19 13C-1,2,3,7,8-PeCDD	8.72e5	0.64	NO	0.967	10.030	30.578	30.68	1.215	1.219	94.836	47.6	0.295	
20	20 13C-1,2,3,4,7,8-HxCDD	6.34e5	1.27	NO	0.874	10.030	34.031	34.03	1.014	1.014	81.444	40.8	0.163	
21	21 13C-1,2,3,6,7,8-HxCDD	7.35e5	1.28	NO	1.05	10.030	34.132	34.14	1.017	1.017	78.915	39.6	0.136	
22	22 13C-1,2,3,7,8,9-HxCDD	6.56e5	1.24	NO	0.974	10.030	34.434	34.41	1.026	1.025	75.561	37.9	0.146	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.25e5	1.03	NO	0.747	10.030	37.991	37.98	1.132	1.132	78.923	39.6	0.178	
24	24 13C-OCDD	6.21e5	0.89	NO	0.707	10.030	40.877	41.12	1.218	1.225	98.645	24.7	0.131	
25	25 13C-2,3,7,8-TCDF	1.52e6	0.77	NO	1.07	10.030	24.991	24.94	0.993	0.991	100.46	50.4	0.419	
26	26 13C-1,2,3,7,8-PeCDF	1.10e6	1.56	NO	1.00	10.030	29.345	29.45	1.166	1.170	77.176	38.7	0.321	
27	27 13C-2,3,4,7,8-PeCDF	1.18e6	1.58	NO	0.962	10.030	30.301	30.39	1.204	1.208	85.987	43.1	0.334	
28	28 13C-1,2,3,4,7,8-HxCDF	8.12e5	0.52	NO	1.05	10.030	33.158	33.17	0.988	0.988	86.867	43.6	0.217	
29	29 13C-1,2,3,6,7,8-HxCDF	8.27e5	0.51	NO	1.19	10.030	33.259	33.28	0.991	0.992	78.040	39.1	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	6.20e5	0.52	NO	1.07	10.030	33.866	33.87	1.009	1.009	65.282	32.7	0.213	
31	31 13C-1,2,3,7,8,9-HxCDF	5.90e5	0.51	NO	0.922	10.030	34.769	34.78	1.036	1.036	71.853	36.0	0.247	

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Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.20e5	0.43	NO	0.767	10.030	36.514	36.54	1.088	1.089	76.014	38.1	0.212	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.58e5	0.41	NO	0.552	10.030	38.528	38.57	1.148	1.149	72.757	36.5	0.294	
34	34 13C-OCDF	6.77e5	0.88	NO	0.789	10.030	41.112	41.30	1.225	1.231	96.323	24.2	0.116	
35	35 37Cl-2,3,7,8-TCDD	4.96e5			1.18	10.030	25.847	25.85	1.027	1.027	44.353	55.6	0.0659	
36	36 13C-1,2,3,4-TCDD	1.90e6	0.80	NO	1.00	10.030	25.080	25.17	1.000	1.000	199.40	100	0.358	
37	37 13C-1,2,3,4-TCDF	2.84e6	0.78	NO	1.00	10.030	23.420	23.57	1.000	1.000	199.40	100	0.446	
38	38 13C-1,2,3,4,6,9-HxCDF	1.78e6	0.51	NO	1.00	10.030	33.520	33.56	1.000	1.000	199.40	100	0.227	
39	39 Total Tetra-Dioxins				0.988	10.030	24.620		0.000		3.9857		0.189	4.70
40	40 Total Penta-Dioxins				0.972	10.030	29.960		0.000		10.136		0.424	11.9
41	41 Total Hexa-Dioxins				0.921	10.030	33.635		0.000		15.884		0.230	15.9
42	42 Total Hepta-Dioxins				0.923	10.030	37.640		0.000		33.613		0.507	33.6
43	43 Total Tetra-Furans				0.802	10.030	23.610		0.000		35.541		0.179	35.7
44	44 1st Func. Penta-Furans				0.907	10.030	27.090		0.000		40.549		0.0932	40.5
45	45 Total Penta-Furans				0.907	10.030	29.275		0.000		18.521		0.423	34.1
46	46 Total Hexa-Furans				0.898	10.030	33.555		0.000		36.308		0.394	36.3
47	47 Total Hepta-Furans				0.851	10.030	37.835		0.000		11.095		0.271	11.1

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Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.02	2.167e4	2.470e4	1.979e3	2.435e3	0.81	NO	4.414e3	0.73333	0.73333	0.189
2	Total Tetra-Dioxins	22.53	9.176e3	1.632e4	1.360e3	1.129e3	1.20	YES	0.000e0	0.00000	0.33189	0.189
3	Total Tetra-Dioxins	22.89	9.431e3	1.087e4	5.363e2	6.338e2	0.85	NO	1.170e3	0.19439	0.19439	0.189
4	Total Tetra-Dioxins	23.76	8.565e3	1.047e4	6.530e2	8.353e2	0.78	NO	1.488e3	0.24728	0.24728	0.189
5	Total Tetra-Dioxins	24.04	3.029e4	3.543e4	1.840e3	2.237e3	0.82	NO	4.077e3	0.67732	0.67732	0.189
6	Total Tetra-Dioxins	24.16	2.869e4	3.582e4	1.867e3	2.268e3	0.82	NO	4.135e3	0.68693	0.68693	0.189
7	Total Tetra-Dioxins	24.34	1.005e4	7.238e3	4.717e2	5.470e2	0.86	NO	1.019e3	0.16925	0.16925	0.189
8	Total Tetra-Dioxins	24.76	1.230e4	1.654e4	8.608e2	1.243e3	0.69	NO	2.103e3	0.34947	0.34947	0.189
9	Total Tetra-Dioxins	25.57	1.408e4	1.908e4	1.422e3	1.732e3	0.82	NO	3.154e3	0.52394	0.52394	0.189
10	2,3,7,8-TCDD	25.85	1.212e4	2.094e4	9.942e2	1.708e3	0.58	YES	2.702e3	0.00000	0.37969	0.189
11	Total Tetra-Dioxins	26.15	1.428e4	1.889e4	9.752e2	1.456e3	0.67	NO	2.431e3	0.40383	0.40383	0.189

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.52	8.017e4	1.310e5	5.604e3	9.058e3	0.62	NO	1.466e4	3.4489	3.4489	0.424
2	Total Penta-Dioxins	28.99	1.471e4	2.221e4	9.965e2	1.332e3	0.75	YES	0.000e0	0.00000	0.51090	0.424
3	Total Penta-Dioxins	29.49	5.347e4	7.357e4	3.407e3	4.740e3	0.72	NO	8.147e3	1.9164	1.9164	0.424
4	Total Penta-Dioxins	29.65	5.079e4	7.409e4	2.716e3	4.018e3	0.68	NO	6.734e3	1.5842	1.5842	0.424
5	Total Penta-Dioxins	29.75	1.983e4	4.207e4	1.392e3	2.529e3	0.55	NO	3.922e3	0.92255	0.92255	0.424
6	Total Penta-Dioxins	29.98	3.336e4	5.093e4	3.068e3	3.244e3	0.95	YES	0.000e0	0.00000	1.2438	0.424
7	1,2,3,7,8-PeCDD	30.70	3.568e4	5.341e4	2.044e3	2.883e3	0.71	NO	4.926e3	1.1588	1.1588	0.424
8	Total Penta-Dioxins	30.77	1.301e4	2.214e4	7.210e2	1.134e3	0.64	NO	1.855e3	0.43638	0.43638	0.424
9	Total Penta-Dioxins	31.06	1.492e4	2.364e4	1.167e3	1.677e3	0.70	NO	2.844e3	0.66910	0.66910	0.424

Vista Analytical Laboratory

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.56	1.791e5	1.394e5	8.354e3	6.508e3	1.28	NO	1.486e4	4.7657	4.7657	0.230
2	Total Hexa-Dioxins	33.10	3.743e4	3.048e4	1.960e3	1.474e3	1.33	NO	3.434e3	1.1012	1.1012	0.230
3	Total Hexa-Dioxins	33.37	2.108e5	1.653e5	1.271e4	1.028e4	1.24	NO	2.299e4	7.3720	7.3720	0.230
4	1,2,3,4,7,8-HxCDD	34.05	8.310e3	1.027e4	4.476e2	4.227e2	1.06	NO	8.704e2	0.25561	0.25561	0.204
5	1,2,3,6,7,8-HxCDD	34.16	5.304e4	4.376e4	2.990e3	2.371e3	1.26	NO	5.361e3	1.5784	1.5784	0.216
6	1,2,3,7,8,9-HxCDD	34.44	2.566e4	1.950e4	1.383e3	1.066e3	1.30	NO	2.449e3	0.81066	0.81066	0.239

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.96	2.643e5	2.737e5	2.452e4	2.470e4	0.99	NO	4.922e4	20.237	20.237	0.507
2	1,2,3,4,6,7,8-HpCDD	38.00	1.801e5	1.841e5	1.644e4	1.610e4	1.02	NO	3.253e4	13.376	13.376	0.507

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.87	7.375e3	1.350e4	6.207e2	8.974e2	0.69	NO	1.518e3	0.24784	0.24784	0.179
2	Total Tetra-Furans	20.39	7.217e4	9.386e4	6.123e3	7.810e3	0.78	NO	1.393e4	2.2747	2.2747	0.179
3	Total Tetra-Furans	21.02	2.950e5	4.254e5	2.715e4	3.643e4	0.75	NO	6.358e4	10.380	10.380	0.179
4	Total Tetra-Furans	21.49	2.451e4	3.648e4	4.879e3	6.577e3	0.74	NO	1.146e4	1.8704	1.8704	0.179
5	Total Tetra-Furans	21.89	1.433e4	1.548e4	6.288e2	8.291e2	0.76	NO	1.458e3	0.23804	0.23804	0.179
6	Total Tetra-Furans	21.99	6.772e4	9.296e4	7.048e3	9.673e3	0.73	NO	1.672e4	2.7299	2.7299	0.179
7	Total Tetra-Furans	22.53	7.044e4	9.095e4	1.096e4	1.496e4	0.73	NO	2.592e4	4.2324	4.2324	0.179
8	Total Tetra-Furans	22.83	2.702e4	3.934e4	1.243e3	1.490e3	0.83	NO	2.733e3	0.44621	0.44621	0.179
9	Total Tetra-Furans	23.31	3.462e4	3.889e4	2.414e3	3.217e3	0.75	NO	5.631e3	0.91928	0.91928	0.179
10	Total Tetra-Furans	23.50	1.363e5	1.916e5	1.329e4	1.880e4	0.71	NO	3.210e4	5.2400	5.2400	0.179
11	Total Tetra-Furans	23.58	2.382e4	2.927e4	1.183e3	1.479e3	0.80	NO	2.662e3	0.43463	0.43463	0.179
12	Total Tetra-Furans	24.10	6.878e4	9.446e4	3.317e3	4.287e3	0.77	NO	7.604e3	1.2414	1.2414	0.179
13	Total Tetra-Furans	24.33	1.144e4	1.290e4	8.044e2	1.036e3	0.78	NO	1.840e3	0.30039	0.30039	0.179
14	Total Tetra-Furans	24.52	1.129e4	2.036e4	1.048e3	1.290e3	0.81	NO	2.339e3	0.38185	0.38185	0.179
15	Total Tetra-Furans	24.73	1.586e4	1.836e4	1.005e3	1.404e3	0.72	NO	2.409e3	0.39332	0.39332	0.179
16	Total Tetra-Furans	24.85	2.168e4	3.446e4	1.663e3	2.483e3	0.67	NO	4.146e3	0.67687	0.67687	0.179
17	2,3,7,8-TCDF	24.97	2.807e4	2.909e4	2.005e3	2.401e3	0.84	NO	4.407e3	0.71943	0.71943	0.179
18	Total Tetra-Furans	25.33	2.674e4	3.037e4	1.682e3	2.149e3	0.78	NO	3.831e3	0.62541	0.62541	0.179
19	Total Tetra-Furans	25.56	6.281e3	7.460e3	4.797e2	5.788e2	0.83	NO	1.059e3	0.17281	0.17281	0.179
20	Total Tetra-Furans	25.89	9.300e3	1.303e4	5.487e2	9.187e2	0.60	YES	0.000e0	0.00000	0.20593	0.179
21	Total Tetra-Furans	26.44	3.968e4	5.080e4	2.669e3	3.515e3	0.76	NO	6.184e3	1.0096	1.0096	0.179
22	Total Tetra-Furans	26.59	3.800e4	4.725e4	2.866e3	3.296e3	0.87	NO	6.162e3	1.0060	1.0060	0.179

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.01	1.753e6	1.091e6	1.295e5	8.054e4	1.61	NO	2.101e5	40.549	40.549	0.0932

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.32	7.903e4	4.983e4	4.775e3	3.317e3	1.44	NO	8.092e3	1.5621	1.5621	0.423
2	Total Penta-Furans	28.47	6.277e5	4.219e5	4.383e4	2.962e4	1.48	NO	0.000e0	0.00000	14.178	0.423
3	Total Penta-Furans	28.52	8.192e4	5.361e4	2.760e3	2.060e3	1.34	NO	0.000e0	0.00000	0.93038	0.423
4	Total Penta-Furans	29.03	3.255e5	2.028e5	2.016e4	1.285e4	1.57	NO	3.301e4	6.3716	6.3716	0.423
5	Total Penta-Furans	29.25	2.292e4	1.224e4	1.094e3	8.009e2	1.37	NO	1.895e3	0.36584	0.36584	0.423
6	1,2,3,7,8-PeCDF	29.45	2.049e4	1.414e4	1.251e3	8.108e2	1.54	NO	2.062e3	0.41197	0.41197	0.479
7	Total Penta-Furans	29.71	1.489e5	1.002e5	9.061e3	5.848e3	1.55	NO	1.491e4	2.8780	2.8780	0.423
8	Total Penta-Furans	30.28	2.815e4	2.269e4	1.534e3	1.382e3	1.11	YES	0.000e0	0.00000	0.48717	0.423
9	2,3,4,7,8-PeCDF	30.42	2.928e5	2.038e5	8.310e3	5.851e3	1.42	NO	1.416e4	2.5217	2.5217	0.353
10	Total Penta-Furans	30.44	3.301e5	2.303e5	1.256e4	9.013e3	1.39	NO	2.158e4	4.1654	4.1654	0.423
11	Total Penta-Furans	31.32	1.710e4	1.307e4	7.802e2	4.858e2	1.61	NO	1.266e3	0.24439	0.24439	0.423

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.03	9.926e4	7.047e4	4.970e3	4.265e3	1.17	NO	9.235e3	2.8775	2.8775	0.394
2	Total Hexa-Furans	32.18	5.173e5	4.142e5	2.504e4	2.010e4	1.25	NO	4.513e4	14.064	14.064	0.394
3	Total Hexa-Furans	32.72	4.359e5	3.695e5	2.169e4	1.840e4	1.18	NO	4.009e4	12.493	12.493	0.394
4	1,2,3,4,7,8-HxCDF	33.19	6.256e4	4.870e4	3.330e3	2.856e3	1.17	NO	6.186e3	1.7618	1.7618	0.343
5	1,2,3,6,7,8-HxCDF	33.29	4.337e4	4.040e4	2.424e3	2.254e3	1.08	NO	4.679e3	1.3403	1.3403	0.356
6	2,3,4,6,7,8-HxCDF	33.89	7.232e4	6.762e4	4.487e3	3.723e3	1.21	NO	8.210e3	2.9392	2.9392	0.453
7	1,2,3,7,8,9-HxCDF	34.79	1.051e4	1.021e4	4.796e2	3.675e2	1.30	NO	8.471e2	0.33352	0.33352	0.528
8	Total Hexa-Furans	34.83	1.965e4	1.289e4	8.680e2	7.343e2	1.18	NO	1.602e3	0.49931	0.49931	0.394

Hepta-Furans

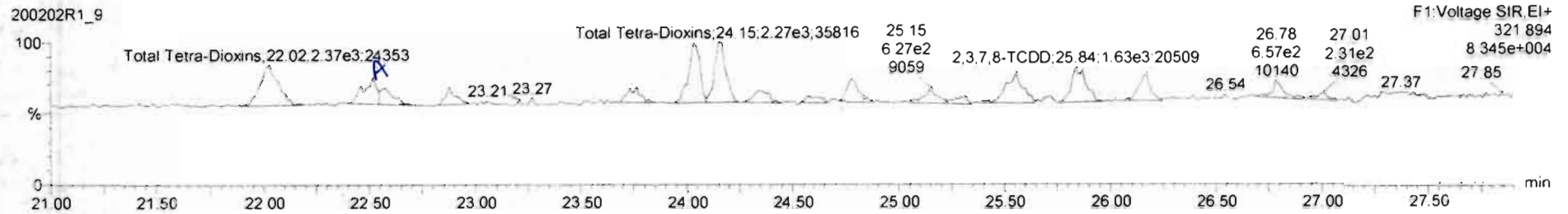
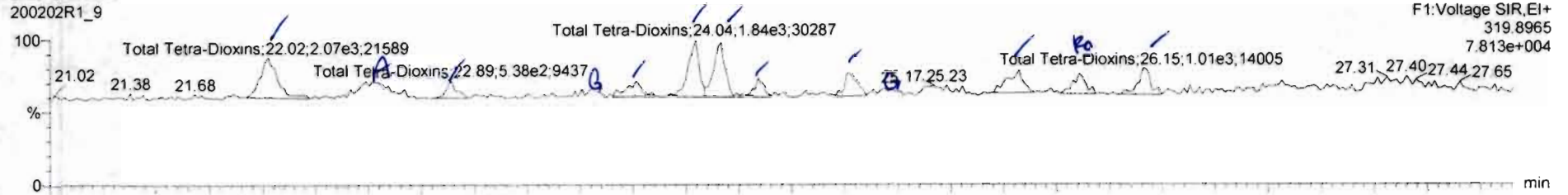
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.55	6.795e4	6.200e4	5.073e3	4.994e3	1.02	NO	1.007e4	4.5400	4.5400	0.230
2	Total Hepta-Furans	37.16	6.485e4	6.596e4	5.414e3	5.847e3	0.93	NO	1.126e4	6.0131	6.0131	0.271
3	1,2,3,4,7,8,9-HpCDF	38.57	5.891e3	8.085e3	4.701e2	4.829e2	0.97	NO	9.531e2	0.54173	0.54173	0.286

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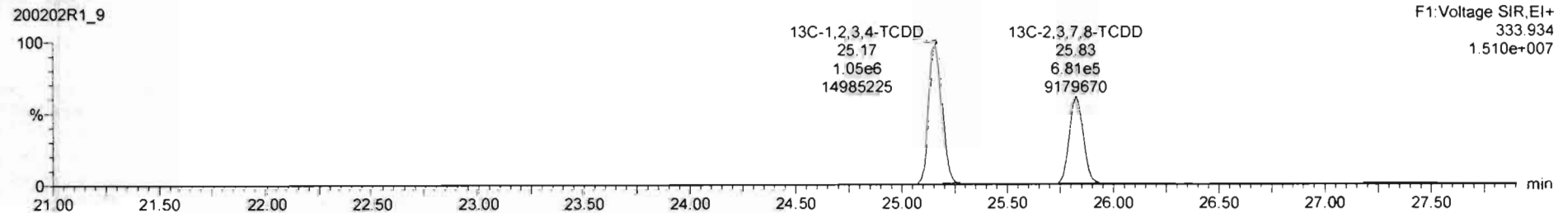
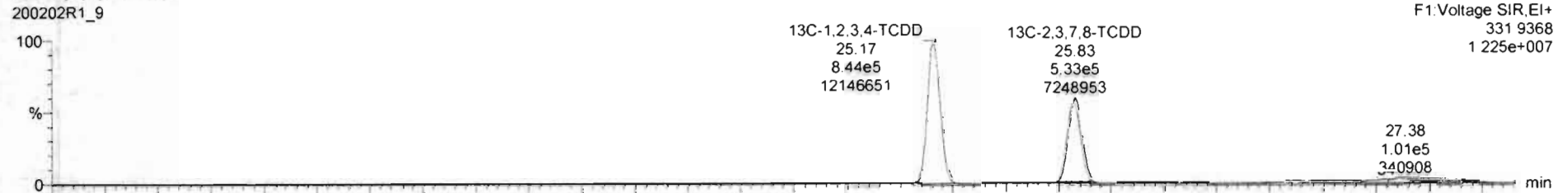
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

2,3,7,8-TCDD



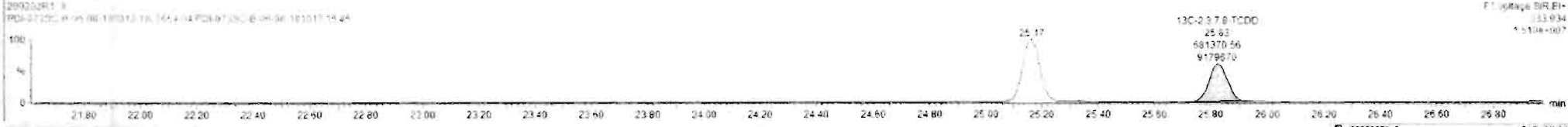
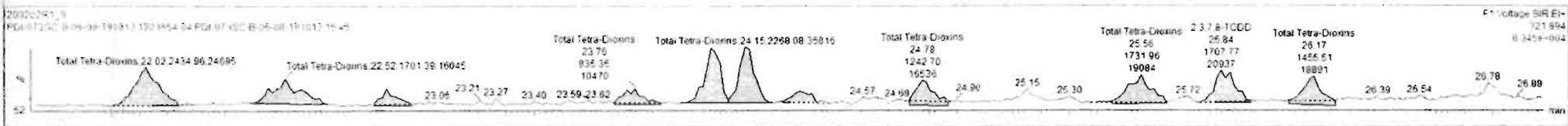
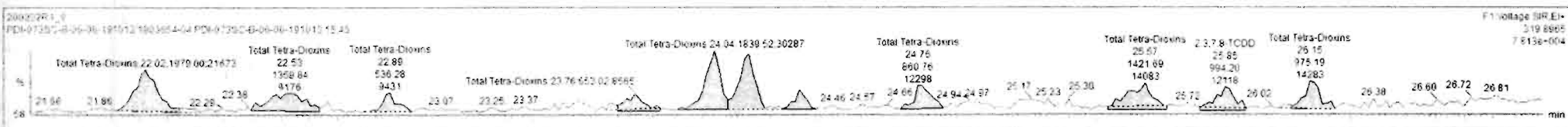
13C-2,3,7,8-TCDD



200202R1_9 - 1903654.04 PDI-073SC-B-06-08-191013 15 45 PDI-073SC-B-06-08-191013

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Chlorins				0.8861	10.030			3.99		0.169	4.87

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Chlorins	22.02	1.979e3	2.435e3	0.81	NO	0.73333	0.73333
2 Total Tetra-Chlorins	22.53	1.960e3	1.701e3	0.80	NO	0.50659	0.00000
3 Total Tetra-Chlorins	22.85	5.363e2	6.338e2	0.85	NO	0.19439	0.19439
4 Total Tetra-Chlorins	23.76	6.530e2	8.353e2	0.78	NO	0.24728	0.24728
5 Total Tetra-Chlorins	24.04	1.840e3	2.237e3	0.82	NO	0.67732	0.67732
6 Total Tetra-Chlorins	24.16	1.867e3	2.268e3	0.82	NO	0.68893	0.68893
7 Total Tetra-Chlorins	24.34	4.717e2	5.470e2	0.86	NO	0.16925	0.16925
8 Total Tetra-Chlorins	24.76	6.606e2	1.243e3	0.69	NO	0.34947	0.34947
9 Total Tetra-Chlorins	25.57	1.422e3	1.732e3	0.82	NO	0.52394	0.52394
10 2,3,7,8-TCDD	25.85	9.942e2	1.706e3	0.58	YES	0.37909	0.00000
11 Total Tetra-Chlorins	26.15	9.752e2	1.456e2	0.67	NO	0.40383	0.40383



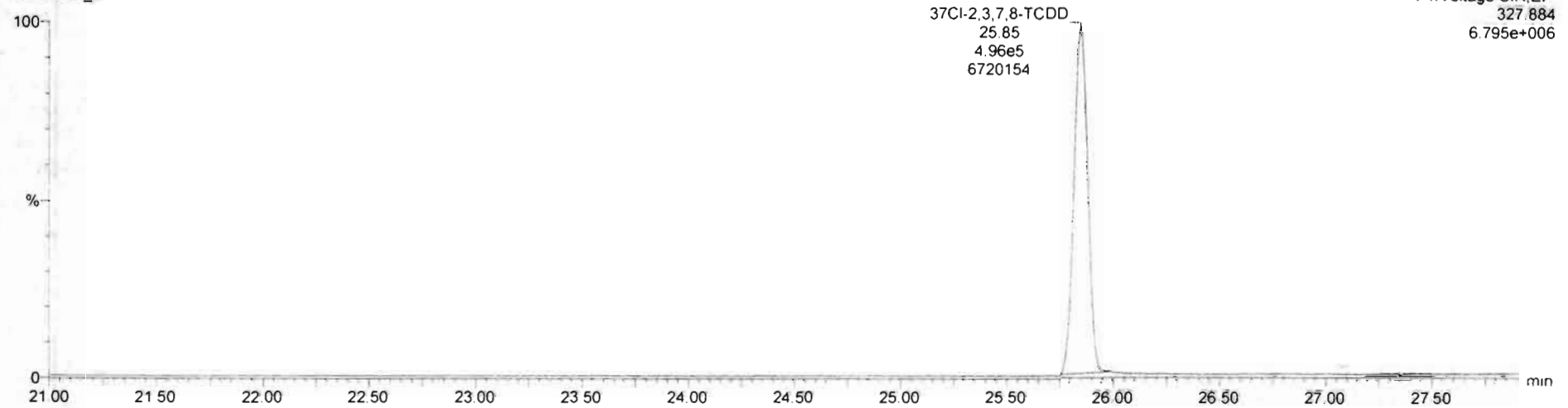
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Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

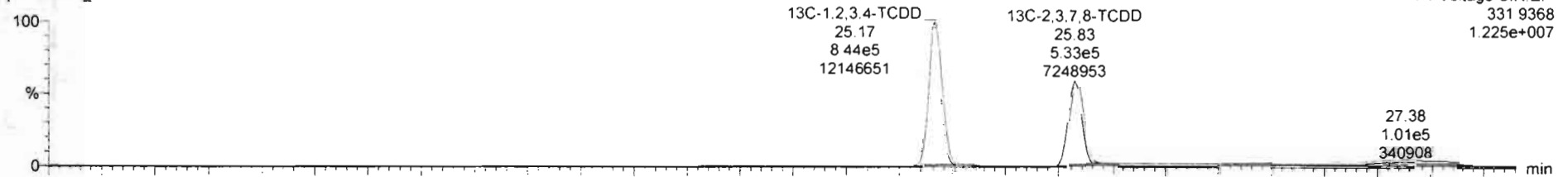
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200202R1_9

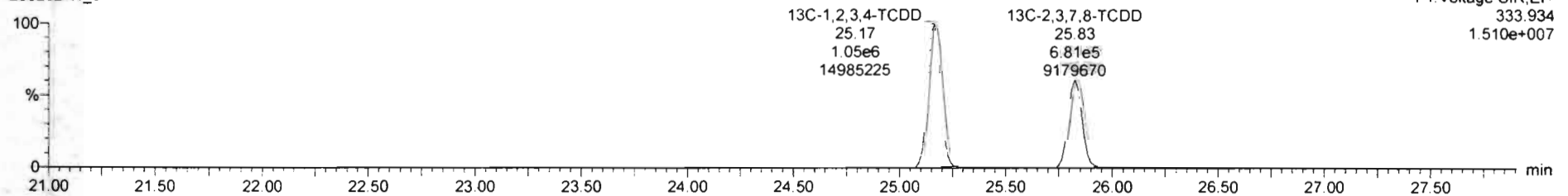


13C-1,2,3,4-TCDD

200202R1_9



200202R1_9

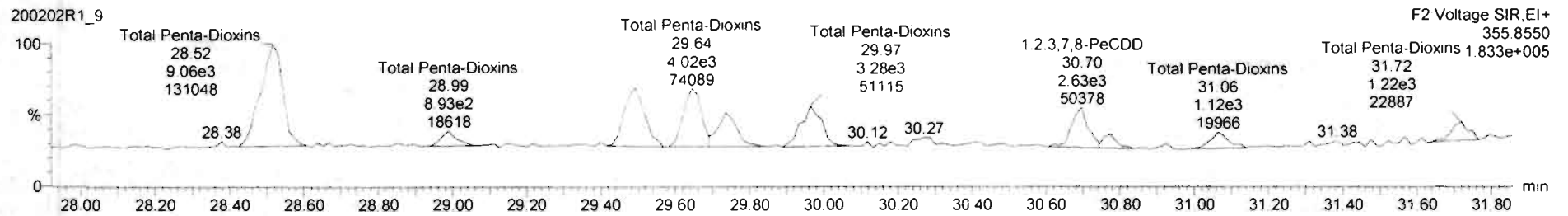
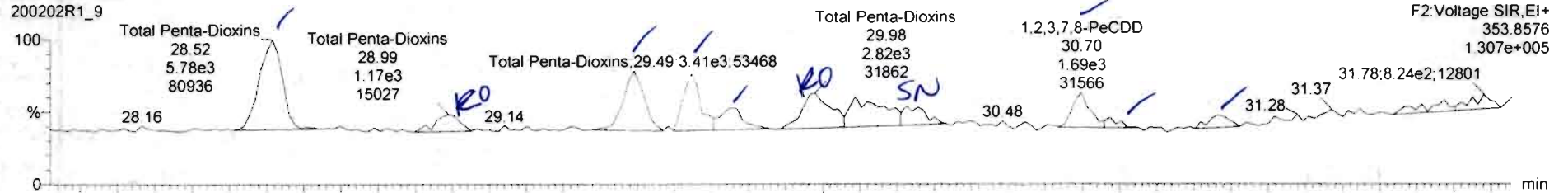


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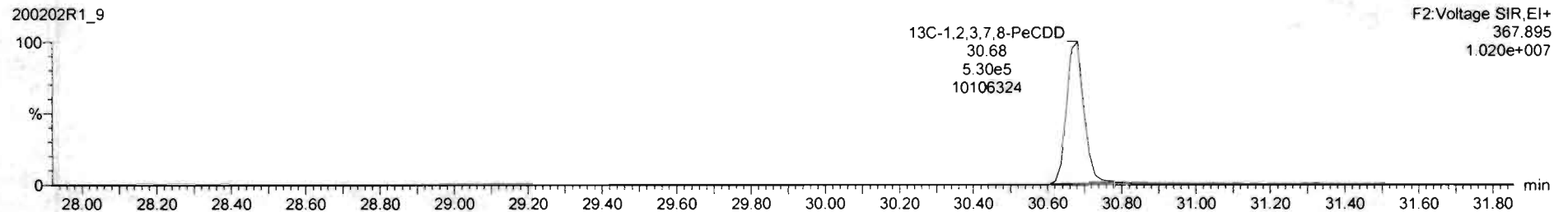
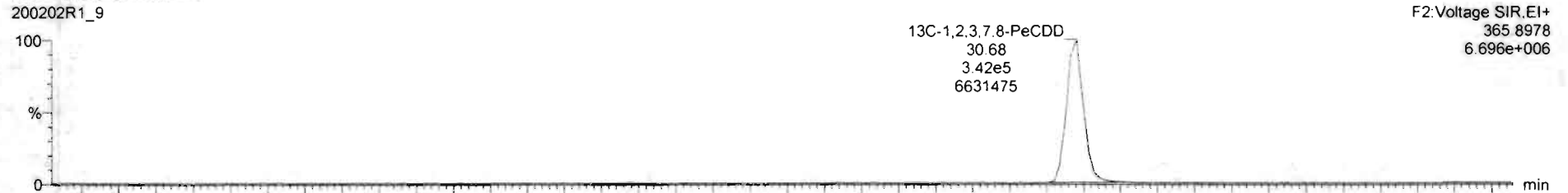
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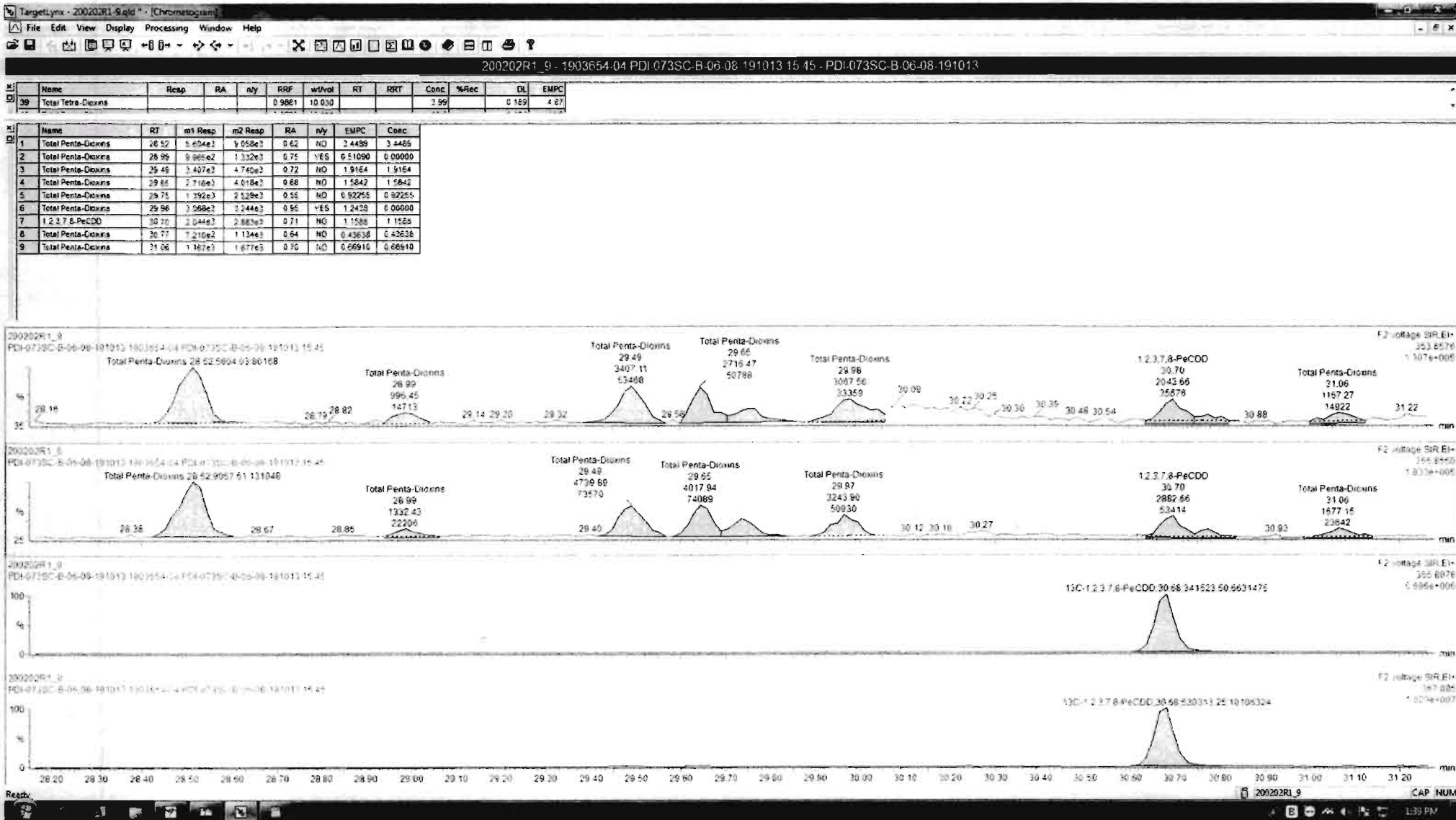
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD





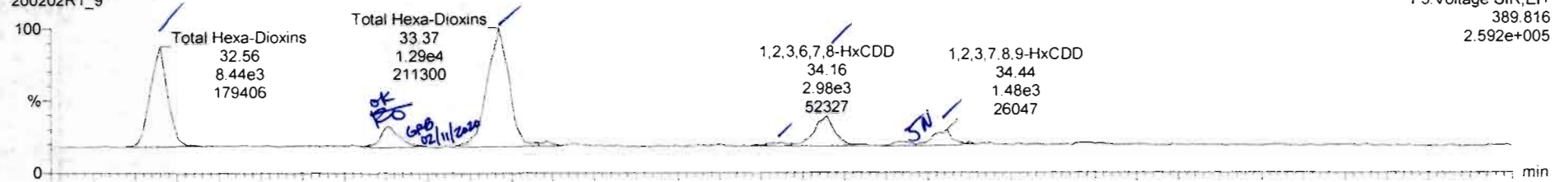
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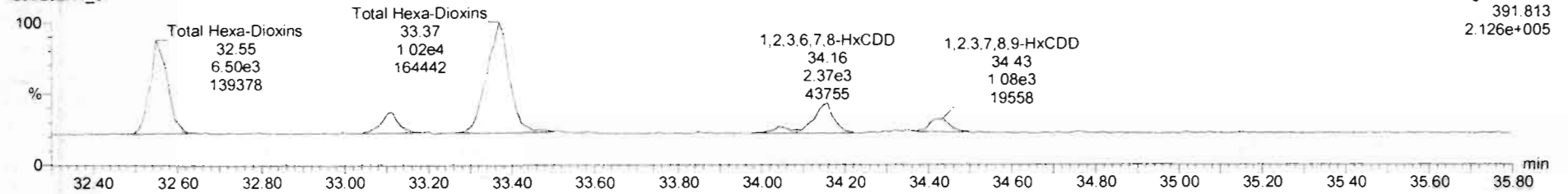
1,2,3,4,7,8-HxCDD

200202R1_9



F3: Voltage SIR, EI+
389.816
2.592e+005

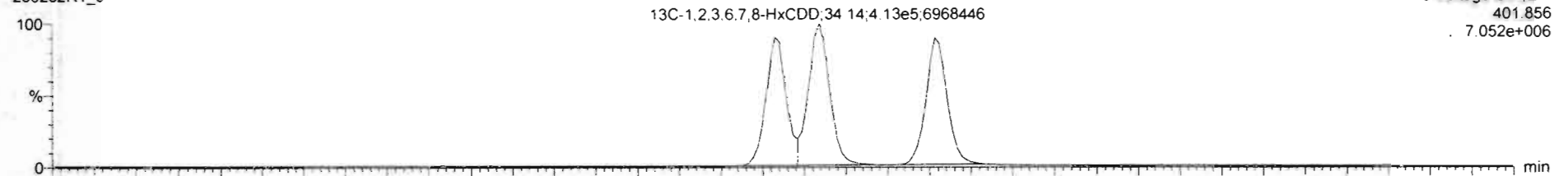
200202R1_9



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391.813
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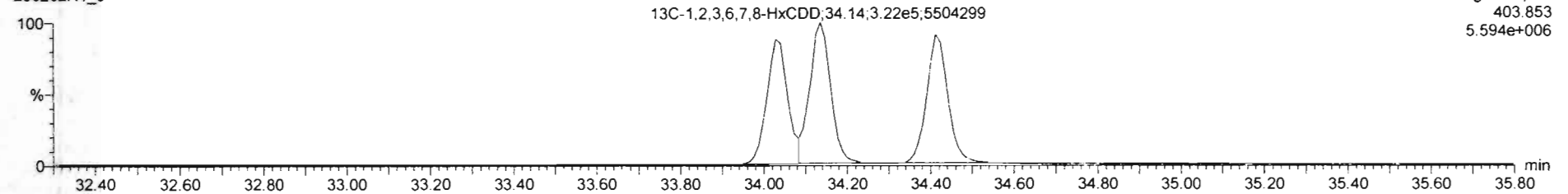
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200202R1_9

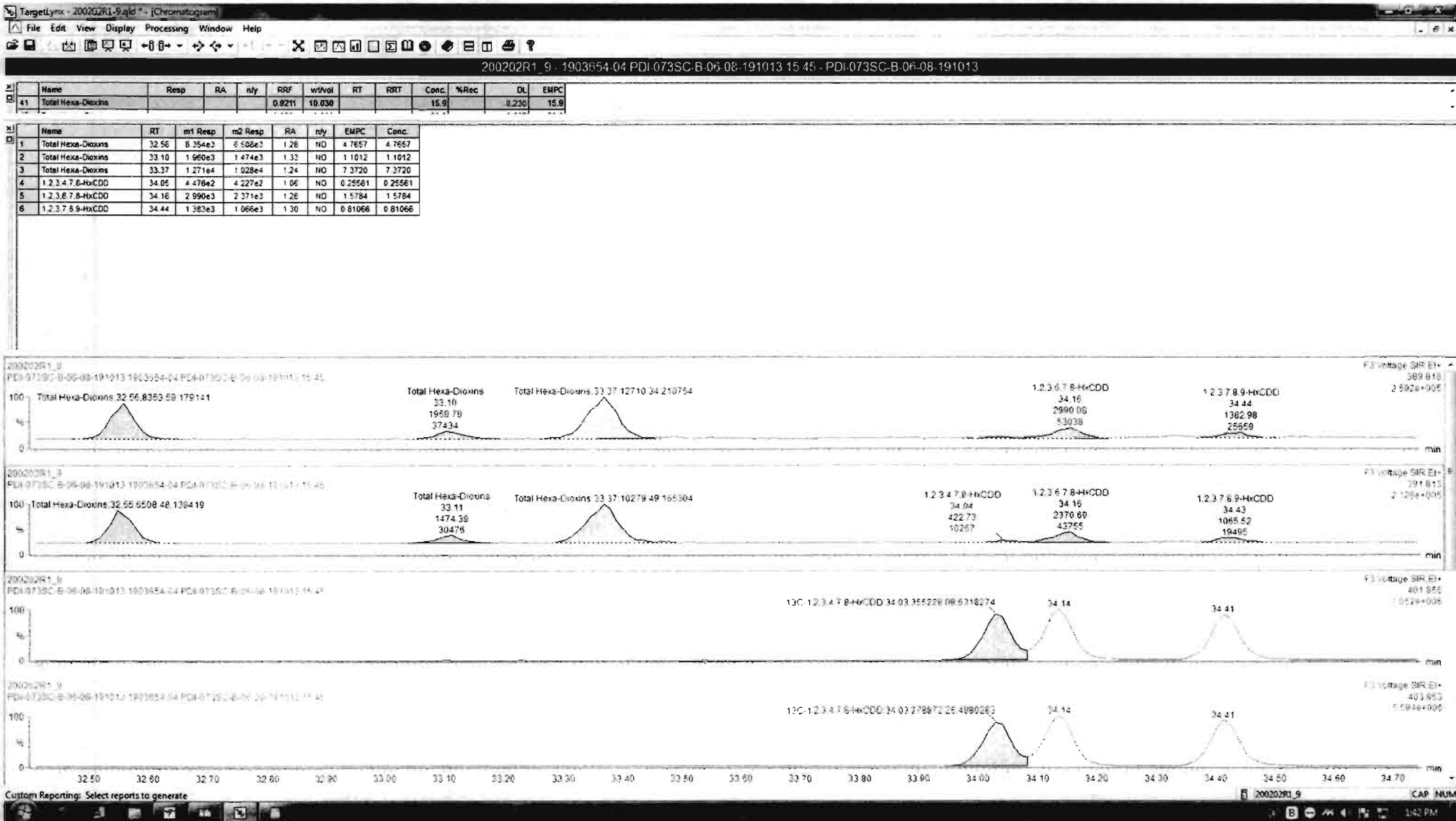


F3: Voltage SIR, EI+
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7.052e+006

200202R1_9



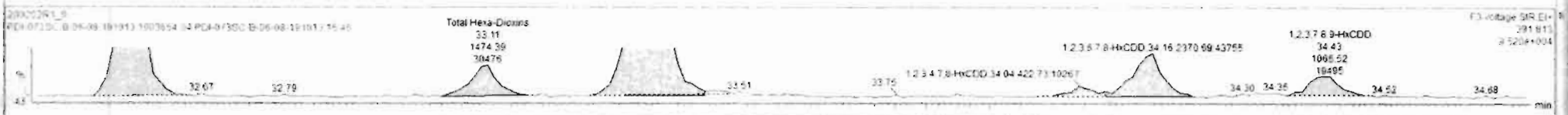
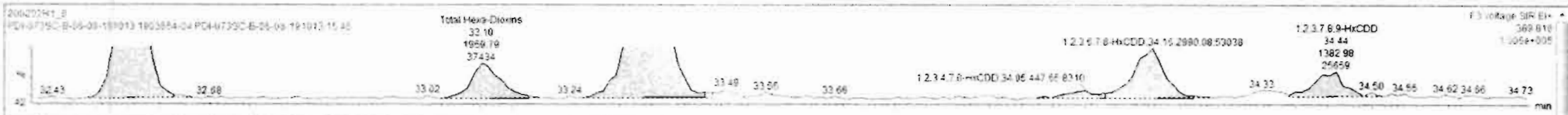
F3: Voltage SIR, EI+
403.853
5.594e+006



200202R1_9 - 1903654 04 PDI-073SC B-06-08-191013 15 45 - PDI-073SC-B-06-08-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
Total Hexa-Dioxins				0.9211	10.030			15.9		0.230	15.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.56	6.354e3	6.508e3	1.28	NO	4.7657	4.7657
2 Total Hexa-Dioxins	33.10	1.960e3	1.474e3	1.33	NO	1.1012	1.1012
3 Total Hexa-Dioxins	33.37	1.271e4	1.028e4	1.24	NO	7.3720	7.3720
4 1,2,3,4,7,8-HxCDD	34.05	4.478e2	4.227e2	1.06	NO	0.25561	0.25561
5 1,2,3,6,7,8-HxCDD	34.16	2.990e3	2.371e3	1.26	NO	1.5784	1.5784
6 1,2,3,7,8,9-HxCDD	34.44	1.383e3	1.066e3	1.30	NO	0.81066	0.81066



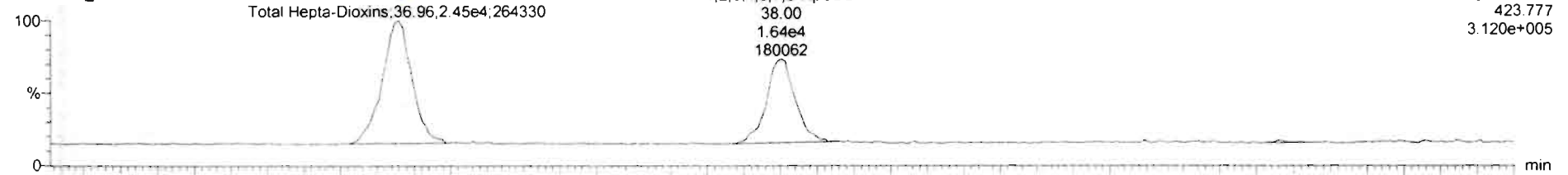
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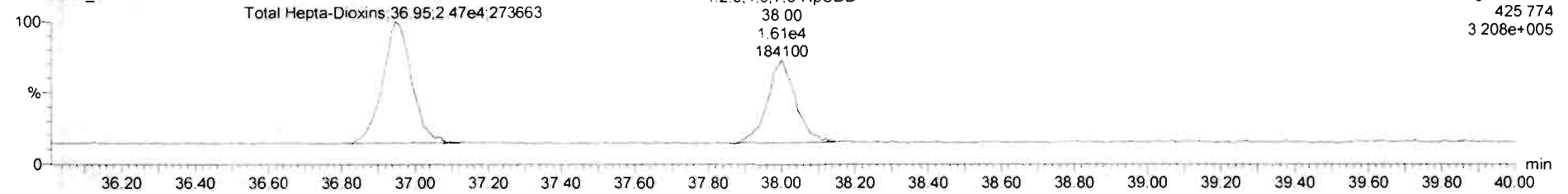
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1,2,3,4,6,7,8-HpCDD

200202R1_9

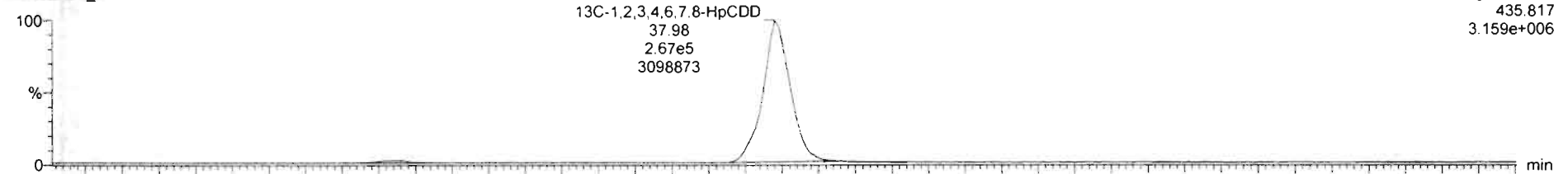


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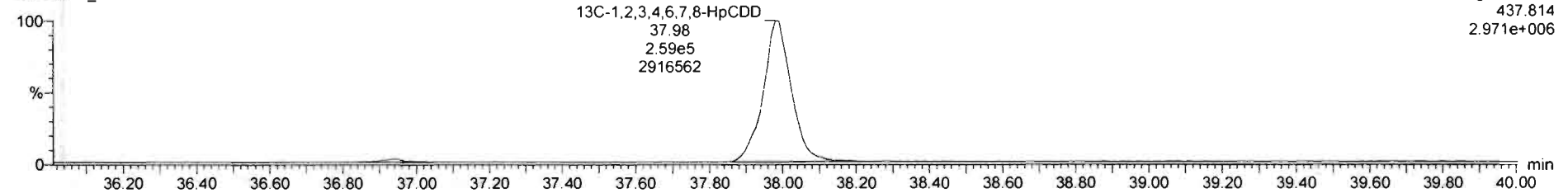


13C-1,2,3,4,6,7,8-HpCDD

200202R1_9



200202R1_9



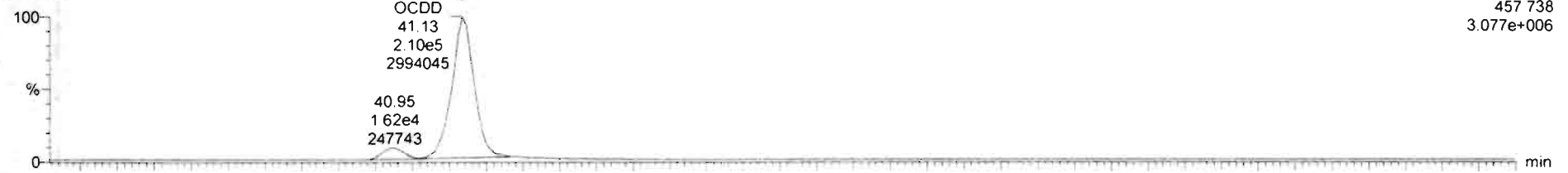
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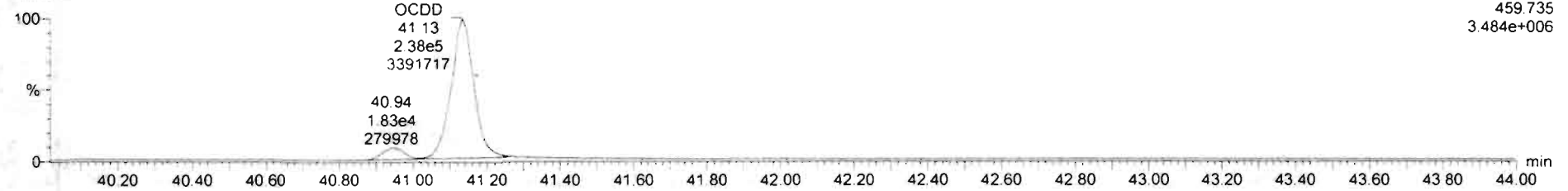
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OCDD

200202R1_9

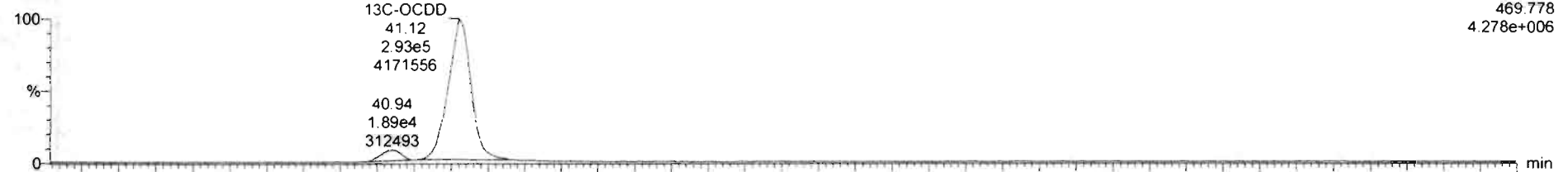


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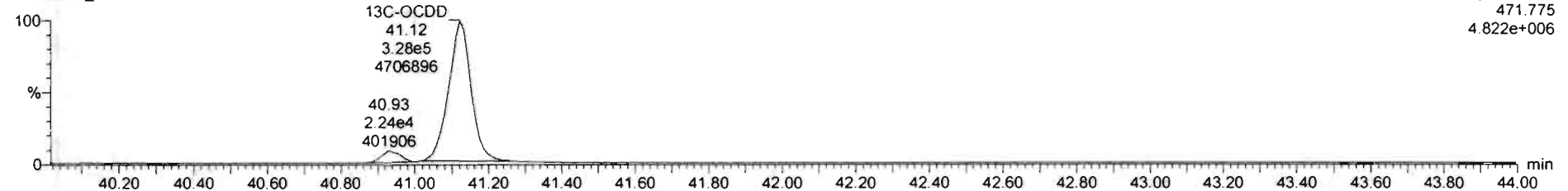


13C-OCDD

200202R1_9



200202R1_9

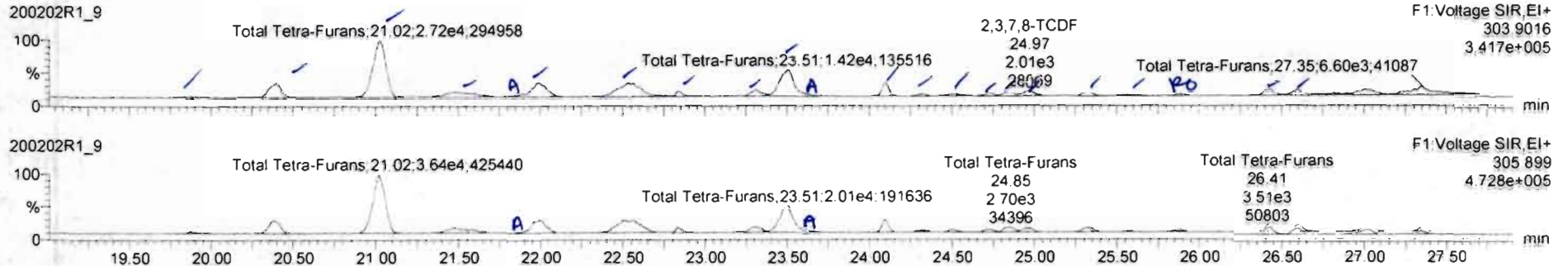


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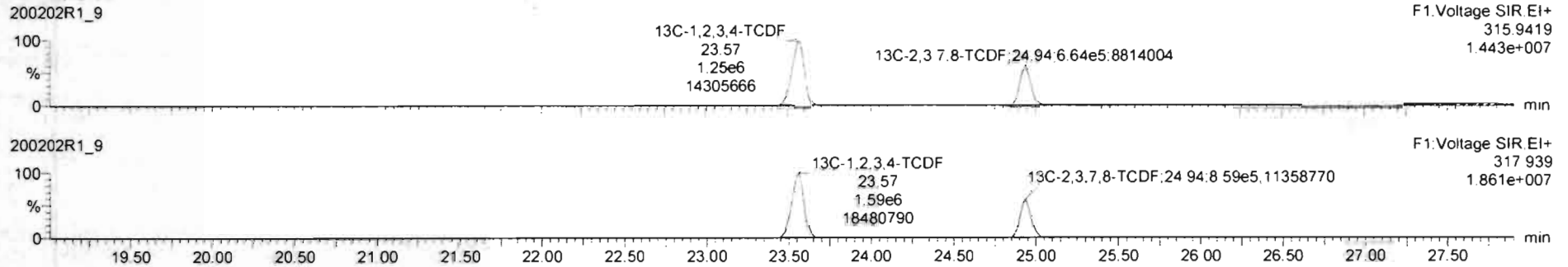
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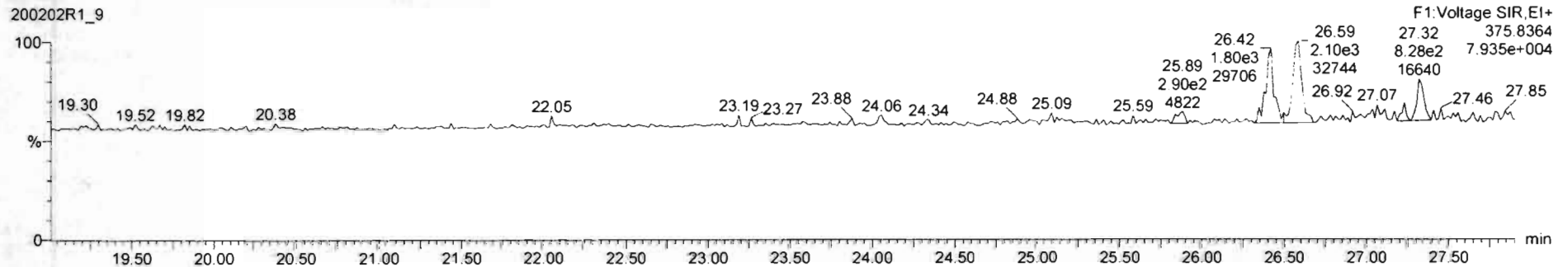
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



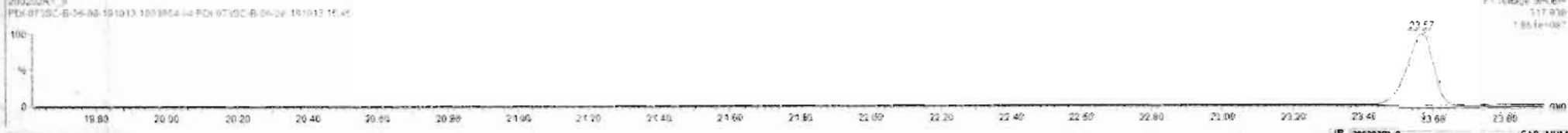
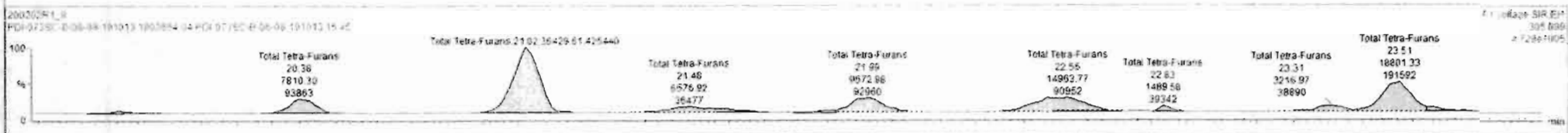
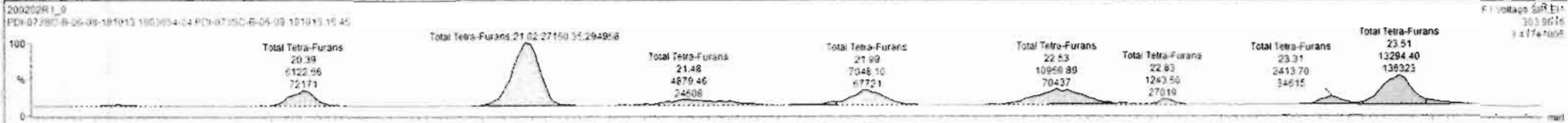
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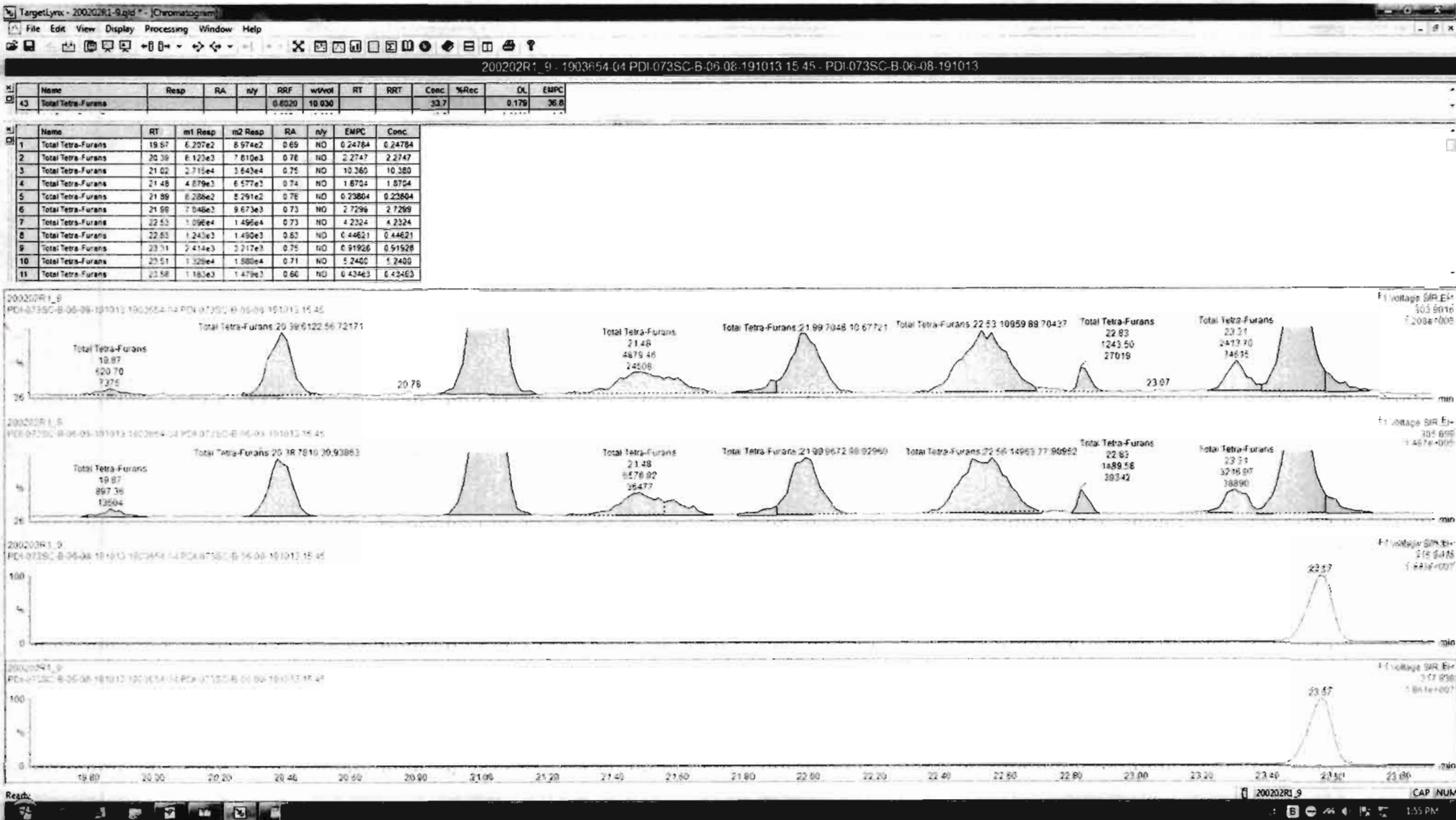


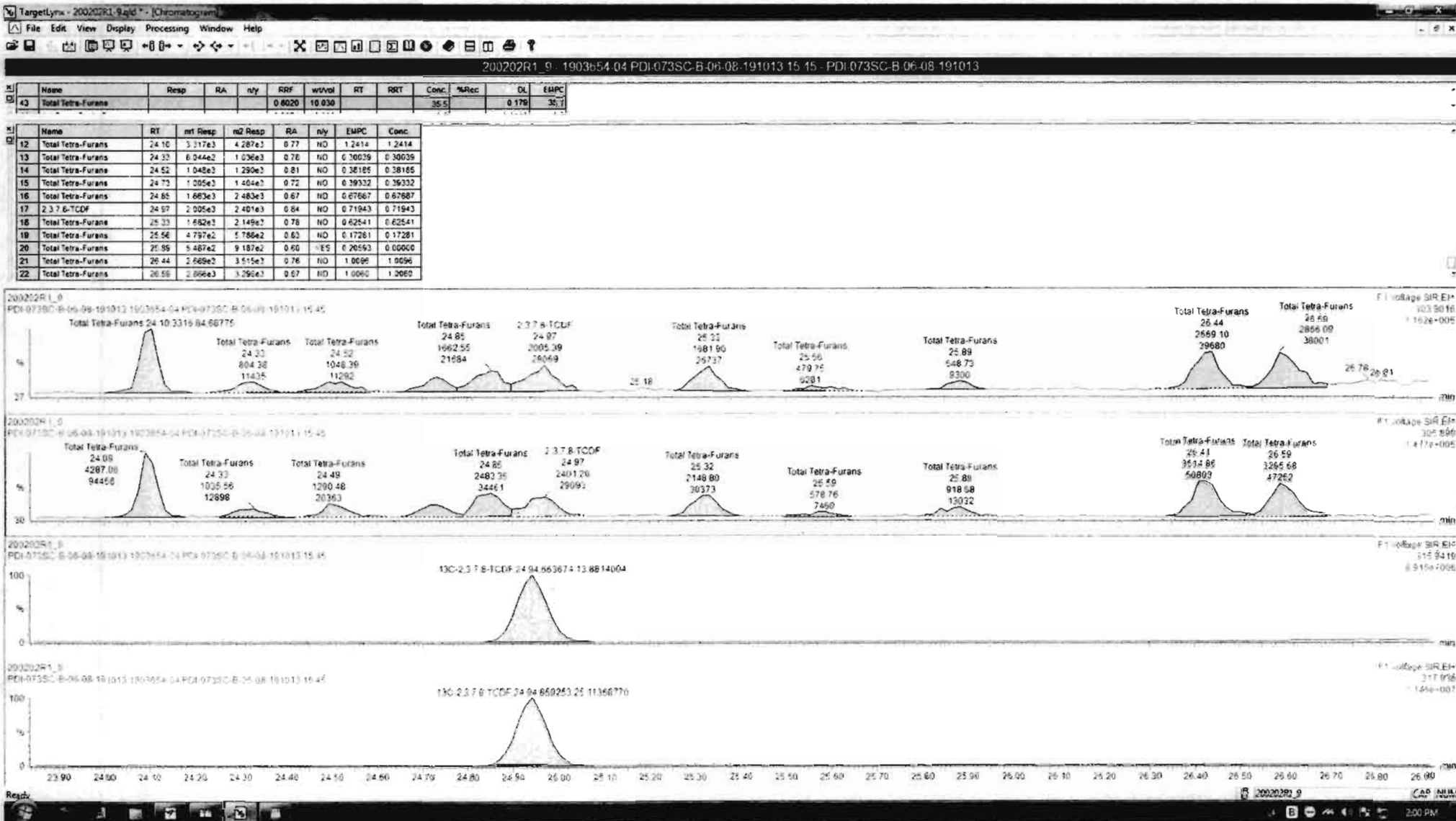
200202R1_9 - 1903654-04 PDI-073SC-B-06-08-191013 15:45 - PDI-073SC-B-06-08-191013

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.6020	10.020			33.7		0.179	96.6

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	19.67	6.207e2	8.974e2	0.66	NO	0.24764
2	Total Tetra-Furans	20.39	6.123e3	7.610e3	0.78	NO	2.2747
3	Total Tetra-Furans	21.02	2.715e4	3.643e4	0.75	NO	10.380
4	Total Tetra-Furans	21.48	4.879e2	6.577e2	0.74	NO	1.8704
5	Total Tetra-Furans	21.89	6.286e2	8.291e2	0.78	NO	0.23804
6	Total Tetra-Furans	21.99	7.048e1	9.673e3	0.73	NO	2.7299
7	Total Tetra-Furans	22.53	1.096e4	1.496e4	0.73	NO	4.2324
8	Total Tetra-Furans	22.63	1.243e3	1.490e2	0.62	NO	0.44621
9	Total Tetra-Furans	23.31	2.414e2	3.217e3	0.75	NO	0.91828
10	Total Tetra-Furans	23.51	1.329e4	1.880e4	0.71	NO	1.3406
11	Total Tetra-Furans	23.58	1.183e3	1.479e2	0.60	NO	6.43463



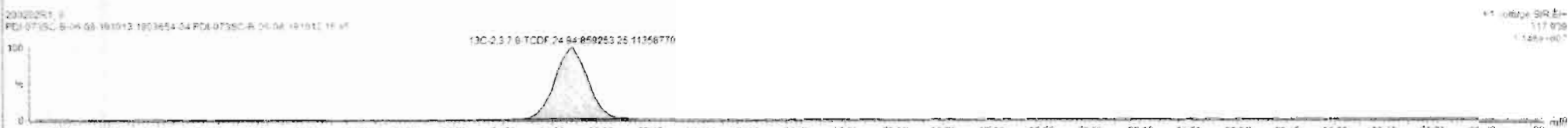
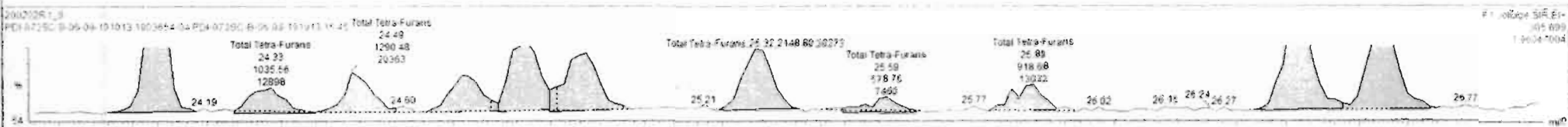
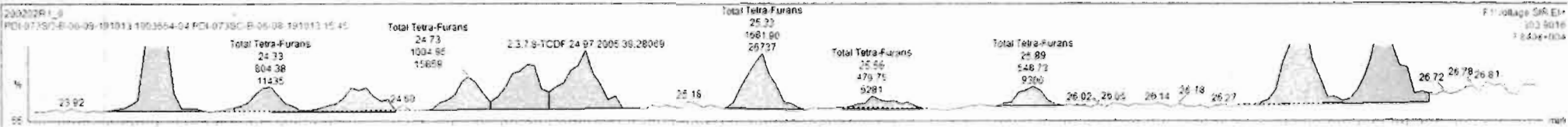




200202R1_9 - 1903654.04 PDI.073SC-B-06-08-191013 15.45 - PDI.073SC-B-06-08-191013

Name	Resp	RA	nly	RF	wvol	RT	RRT	Conc	%Rec	DL	EMPC
Total Tetra-Furans				0.6020	10.030			30.5		0.176	35.7

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
Total Tetra-Furans	24.10	3.317e3	4.267e2	0.77	ND	1.2414	1.2414
Total Tetra-Furans	24.33	6.044e2	1.036e3	0.76	ND	0.30039	0.30039
Total Tetra-Furans	24.52	1.048e3	1.290e2	0.81	ND	0.38185	0.38185
Total Tetra-Furans	24.73	1.005e3	1.404e3	0.72	ND	0.39332	0.39332
Total Tetra-Furans	24.85	1.663e3	2.463e3	0.67	ND	0.67687	0.67687
2,3,7,8-TCDF	24.97	2.005e3	2.401e3	0.84	ND	0.71843	0.71843
Total Tetra-Furans	25.33	1.682e3	2.149e2	0.78	ND	0.62541	0.62541
Total Tetra-Furans	25.56	4.757e2	5.788e2	0.82	ND	0.17281	0.17281
Total Tetra-Furans	25.89	5.487e2	9.167e2	0.60	ES	0.20563	0.00000
Total Tetra-Furans	26.44	2.869e3	3.515e2	0.76	ND	1.0096	1.0096
Total Tetra-Furans	26.59	2.866e2	3.296e2	0.87	ND	1.0090	1.0090



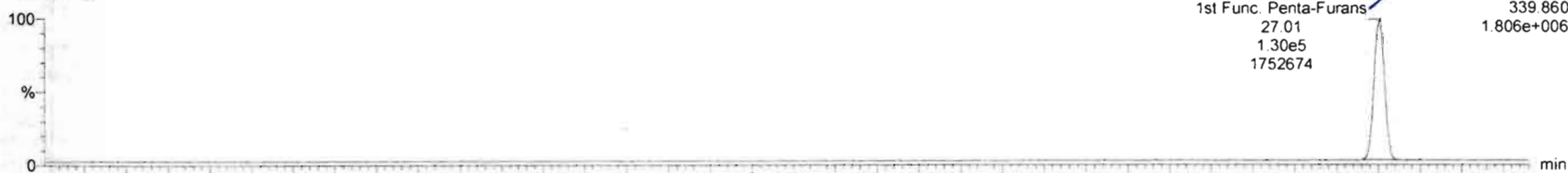
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

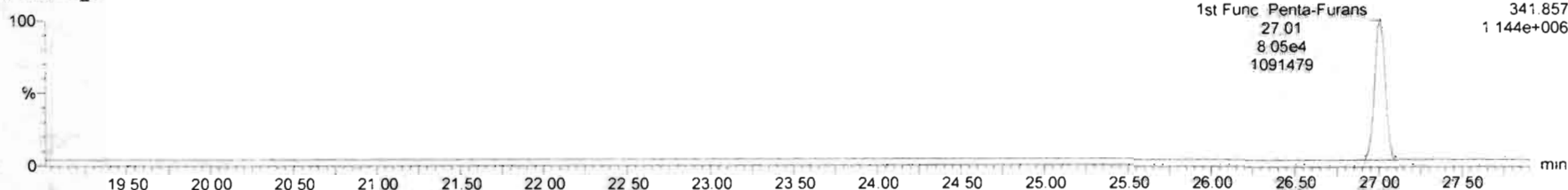
Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

1st Func. Penta-Furans

200202R1_9

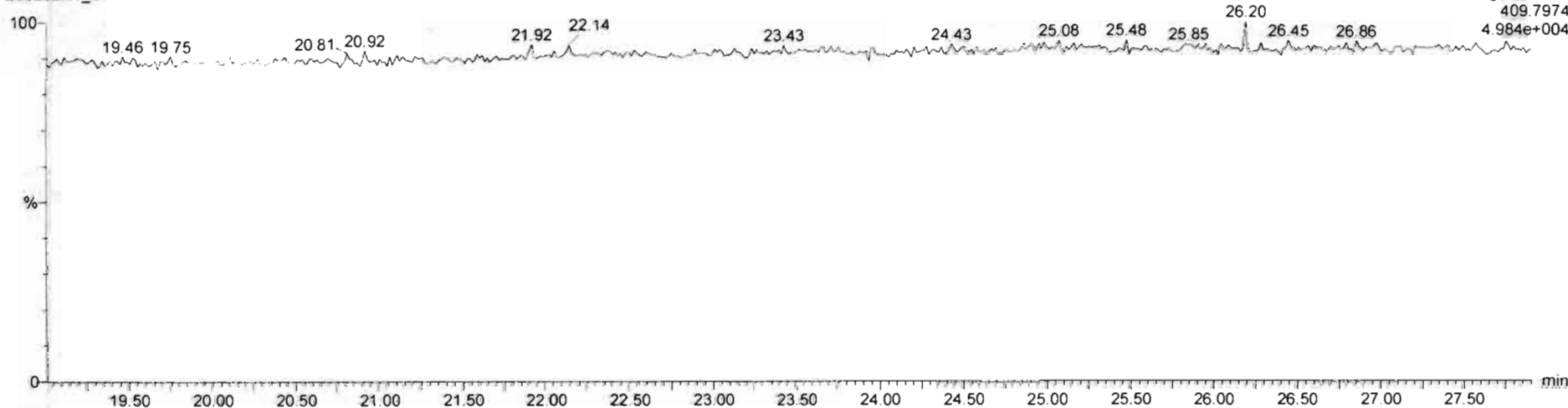


200202R1_9



DPE6

200202R1_9

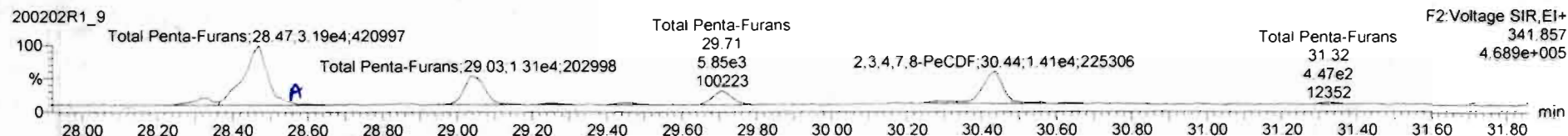
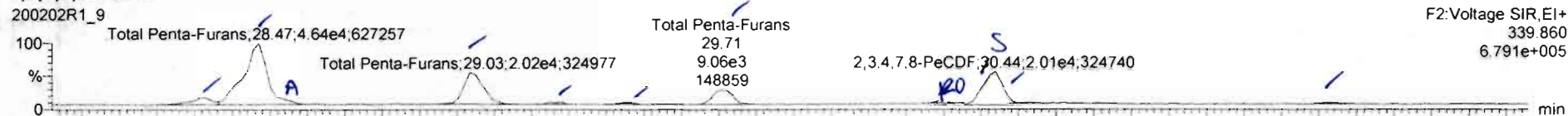


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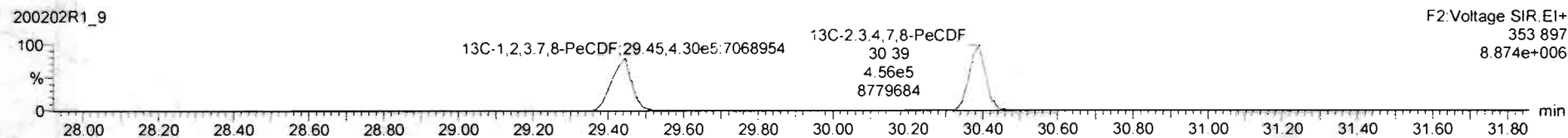
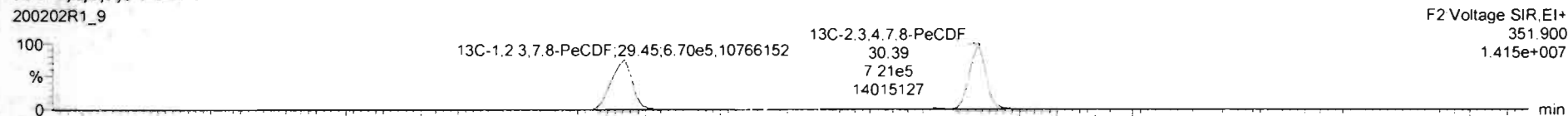
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Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

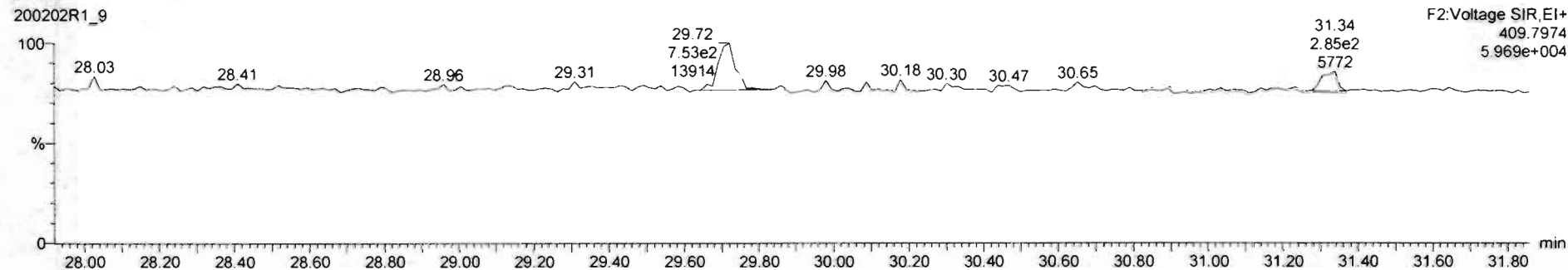
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



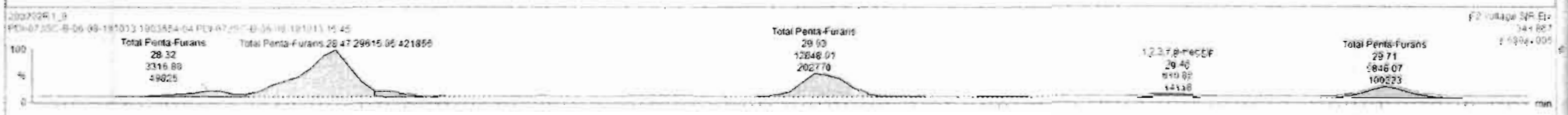
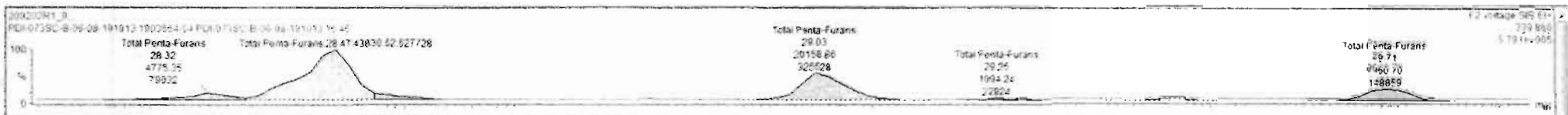
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File Edit View Display Processing Window Help

200202R1_9 - 1903654-04 PDI-073SC-B-06-08-191013 15:45 - PDI-073SC-B-06-08-191013

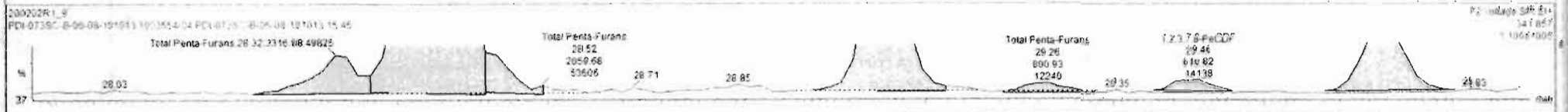
Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.8074	10.030			17.7		0.423	33.3

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.32	4.775e3	1.317e1	1.44	NO	1.5621
2	Total Penta-Furans	28.47	4.383e4	2.962e4	1.48	NO	14.178
3	Total Penta-Furans	28.52	2.766e2	2.069e3	1.34	NO	0.93038
4	Total Penta-Furans	29.03	2.016e4	1.285e4	1.57	NO	6.3716
5	Total Penta-Furans	28.25	1.054e3	8.009e2	1.37	NO	0.38584
6	1,2,3,7,8-PeCDF	29.45	1.251e3	8.108e2	1.54	NO	0.41197
7	Total Penta-Furans	29.71	9.061e2	5.848e2	1.58	NO	2.8780
8	Total Penta-Furans	30.28	8.828e2	1.003e2	0.88	YES	0.28035
9	2,3,4,7,8-PeCDF	30.44	2.013e4	1.414e4	1.42	NO	6.1022
10	Total Penta-Furans	31.32	1.916e3	4.472e2	2.27	YES	0.22014



Name	Resp	RA	nly	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9074	19.030			17.7		0.423	33.3

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.32	4.775e3	3.317e3	1.44	NO	1.5621
2	Total Penta-Furans	28.47	4.382e4	2.962e4	1.48	NO	14.178
3	Total Penta-Furans	28.52	2.780e2	2.660e3	1.34	NO	0.93038
4	Total Penta-Furans	29.03	2.018e4	1.285e4	1.57	NO	8.3716
5	Total Penta-Furans	29.28	1.094e3	8.009e2	1.37	NO	0.36584
6	1,2,3,7,8-PeCDF	29.45	1.251e3	8.108e2	1.54	NO	0.41197
7	Total Penta-Furans	29.71	9.061e3	5.848e2	1.55	NO	2.8780
8	Total Penta-Furans	30.28	8.828e2	1.003e3	0.88	YES	0.28035
9	2,3,4,7,8-PeCDF	30.44	2.013e4	1.414e4	1.42	NO	6.1022
10	Total Penta-Furans	31.32	1.018e3	4.472e2	2.27	YES	0.22014



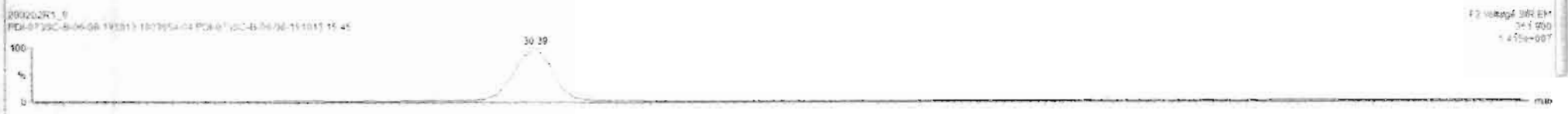
Targetlynx - 200202R1_9.qld - [Chromatogram]

File Edit View Display Processing Window Help

200202R1_9 - 1903654.04 PDI.073SC.B.06.08.191013.15.45 - PDI.073SC.B.06.08.191013

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.8074	10.020			18.5		0.423	34.1

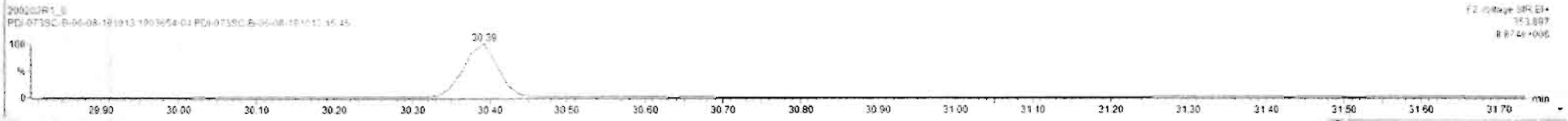
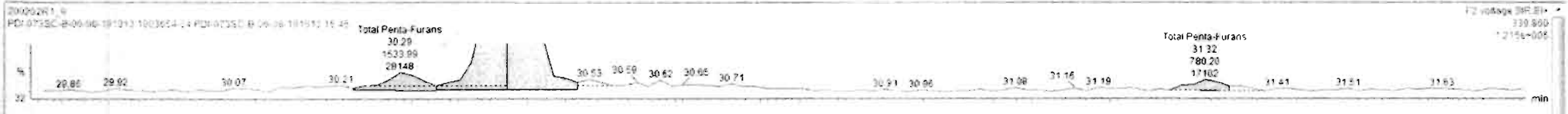
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.32	4.775e3	3.317e3	1.44	NO	1.5621
2	Total Penta-Furans	28.47	4.283e4	2.962e4	1.48	NO	14.178
3	Total Penta-Furans	28.52	1.780e3	2.060e3	1.34	NO	0.93038
4	Total Penta-Furans	29.03	2.016e4	1.285e4	1.57	NO	6.3716
5	Total Penta-Furans	29.25	1.094e3	8.009e2	1.37	NO	0.36584
6	1,2,3,7,8-PeCDF	29.45	1.251e3	8.108e2	1.54	NO	0.41197
7	Total Penta-Furans	29.71	9.061e3	5.848e3	1.55	NO	2.8780
8	Total Penta-Furans	30.29	1.534e3	1.382e3	1.11	YES	0.48717
9	2,3,4,7,8-PeCDF	30.42	8.110e3	5.851e3	1.42	NO	2.5217
10	Total Penta-Furans	30.44	1.256e4	9.013e3	1.39	NO	4.1654
11	Total Penta-Furans	31.32	7.802e2	4.858e2	1.61	NO	0.24438



200202R1_9 - 1903654-04.PDI-073SC-B-06-08-191013 15:45 - PDI-073SC-B-06-08-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	FRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.330			18.5		0.423	34.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.32	4.775e3	2.317e3	1.44	ND	1.5621	1.5621
2 Total Penta-Furans	28.47	4.782e4	2.962e4	1.48	ND	14.175	0.0000
3 Total Penta-Furans	28.52	2.760e3	2.060e2	1.34	ND	0.92038	0.0000
4 Total Penta-Furans	28.03	2.016e4	1.285e4	1.57	ND	6.3716	6.3716
5 Total Penta-Furans	29.25	1.094e3	8.009e2	1.27	ND	0.36584	0.36584
6 1,2,3,7,8-PeCDF	29.45	1.251e2	8.108e2	1.54	ND	0.41197	0.41197
7 Total Penta-Furans	29.71	9.961e3	1.646e3	1.15	ND	2.8720	2.8720
8 Total Penta-Furans	30.29	1.534e3	1.382e3	1.11	ES	0.48717	0.0000
9 2,3,4,7,8-PeCDF	30.42	8.310e3	1.851e3	1.42	ND	3.5217	2.5217
10 Total Penta-Furans	30.44	1.258e4	9.013e3	1.39	ND	4.1654	4.1654
11 Total Penta-Furans	31.32	7.802e2	4.856e2	1.61	ND	0.24429	0.24429

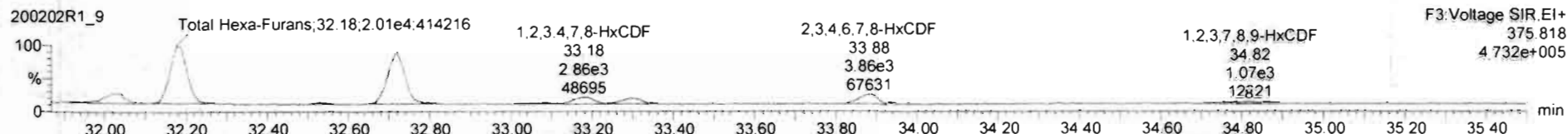
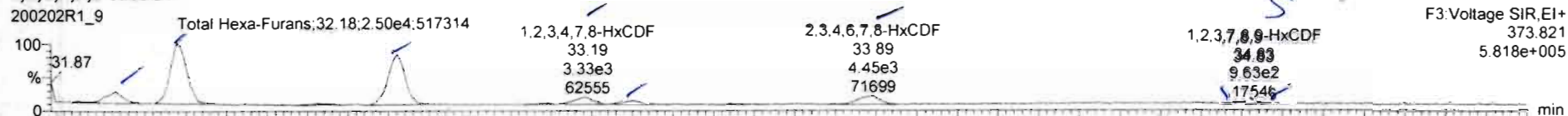


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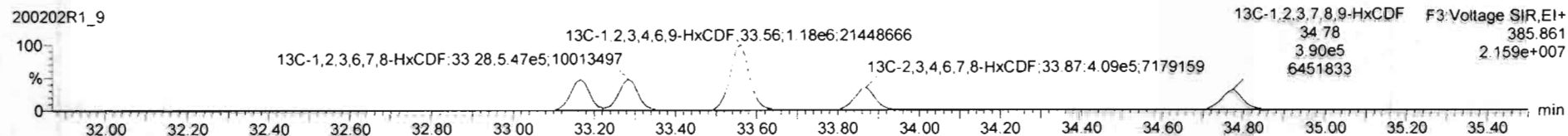
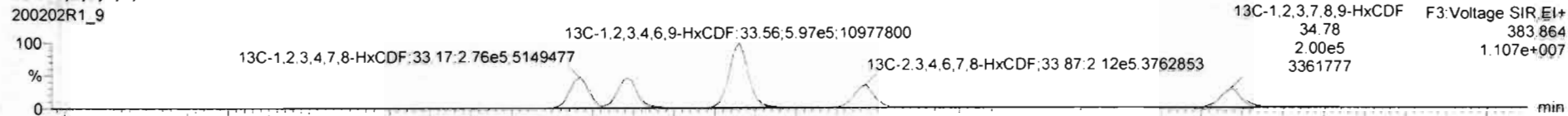
Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

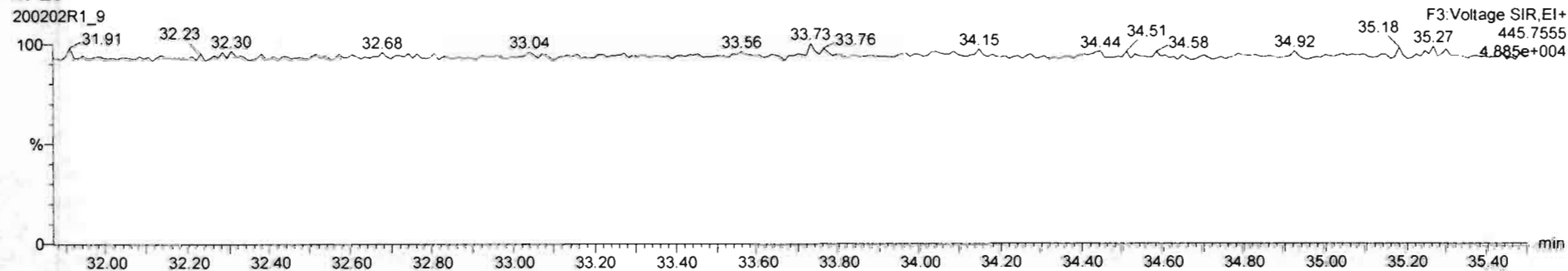
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13C-1,2,3,4,7,8-HxCDF



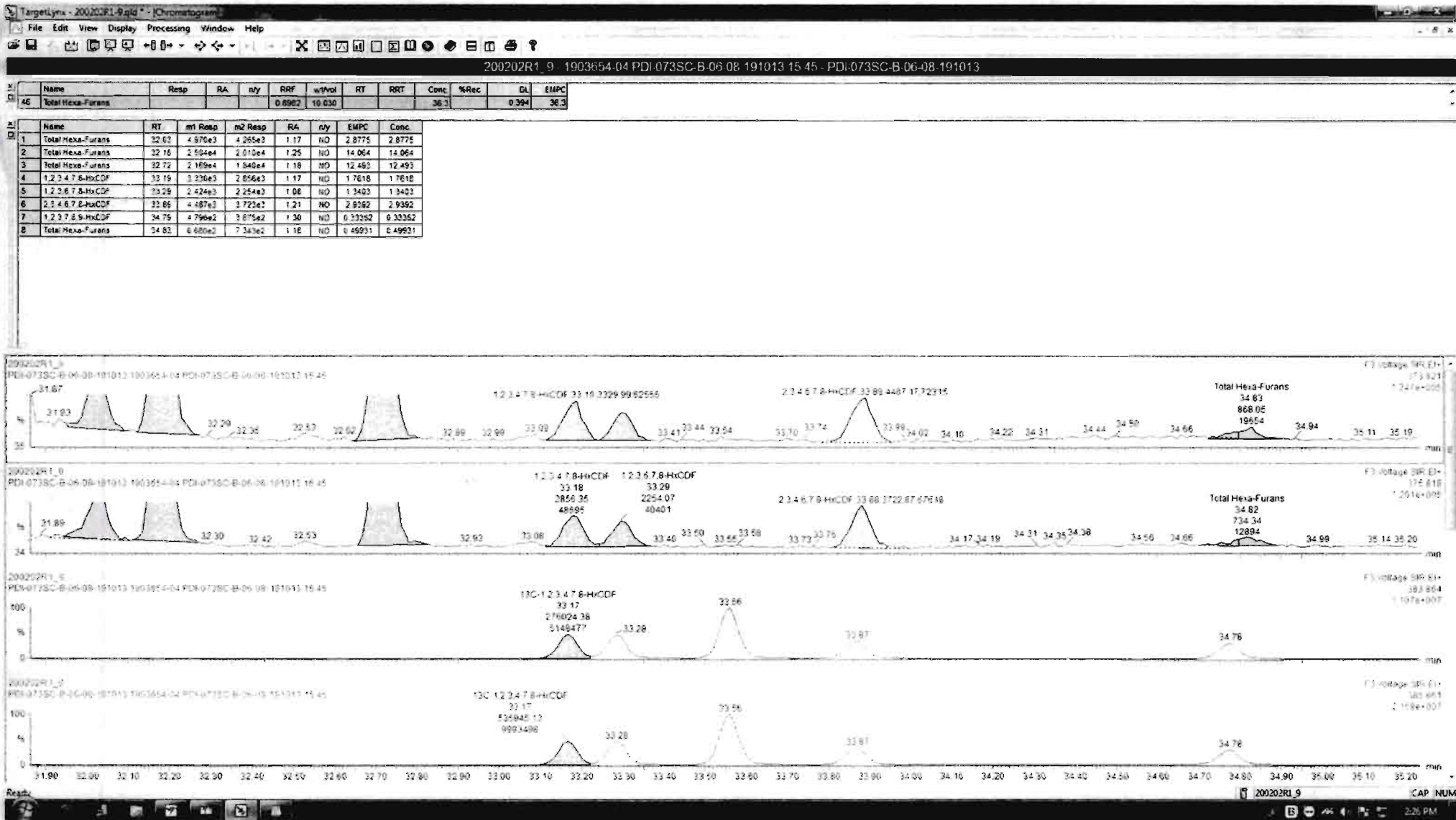
DPE3



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8962	10.030			36.3		0.304	36.3

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.03	4.970e3	4.265e3	1.17	NO	2.8775	2.8775
2	Total Hexa-Furans	32.16	2.504e4	2.010e4	1.25	NO	14.064	14.064
3	Total Hexa-Furans	32.72	2.169e4	1.840e4	1.18	NO	12.492	12.492
4	1,2,3,4,7,8-HxCDF	33.19	3.330e3	2.856e3	1.17	NO	1.7618	1.7618
5	1,2,3,6,7,8-HxCDF	33.29	2.424e3	2.254e3	1.06	NO	1.3403	1.3403
6	2,3,4,6,7,8-HxCDF	33.89	4.487e3	3.723e3	1.21	NO	2.9392	2.9392
7	1,2,3,7,8,9-HxCDF	34.79	4.796e2	3.675e2	1.30	NO	0.33352	0.33352
8	Total Hexa-Furans	34.83	6.660e2	7.343e2	1.10	NO	0.49931	0.49931





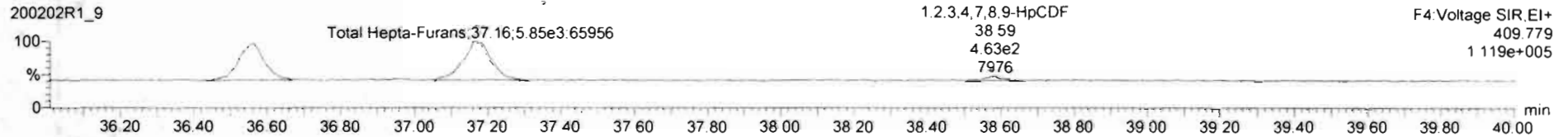
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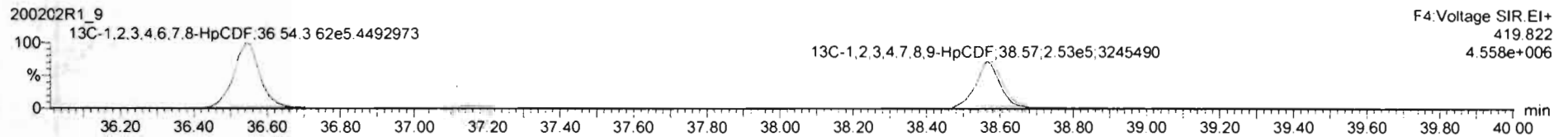
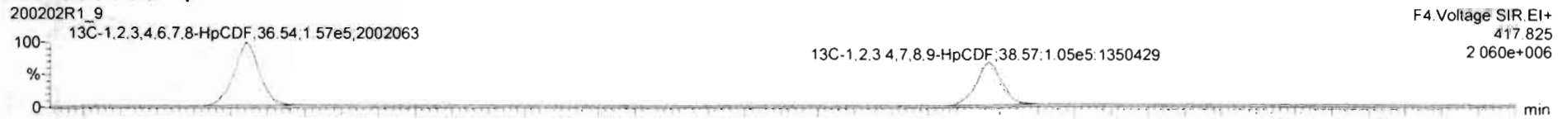
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Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

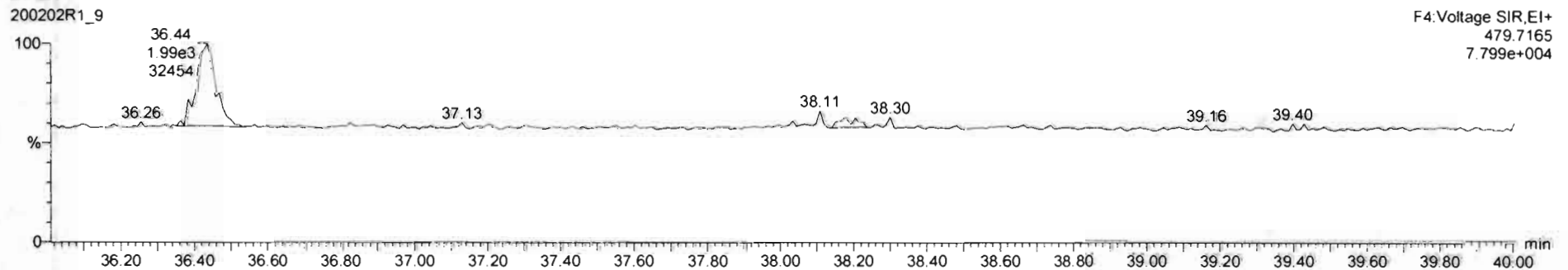
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13C-1,2,3,4,6,7,8-HpCDF



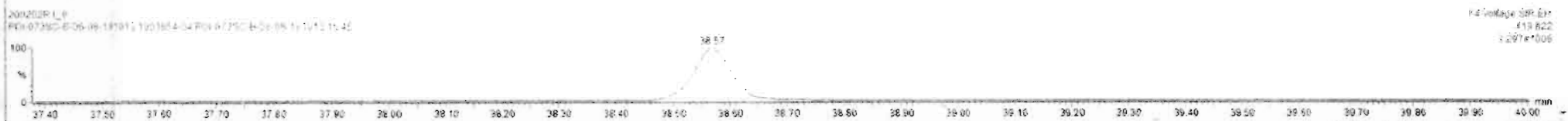
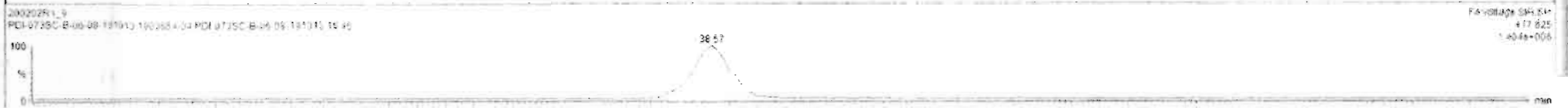
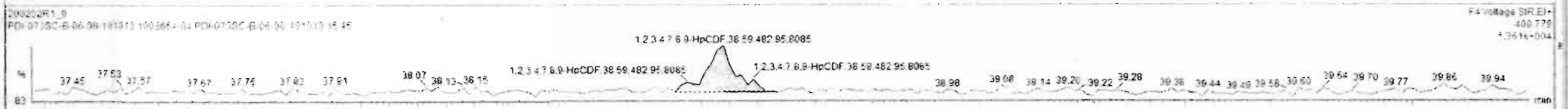
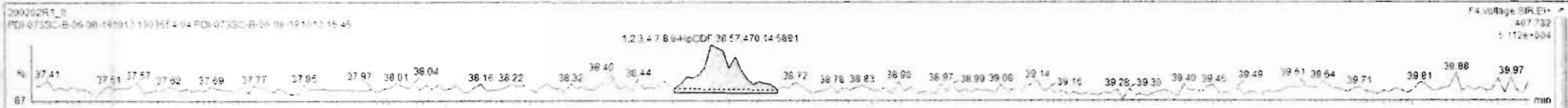
DPE4



200202R1_9 - 1903654.04 PDI 073SC-B-06-08-191013 15 45 - PDI-073SC-B-06-08-191013

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
Total Hexa-Furans				0.8562	10.030			36.7		0.354	36.3

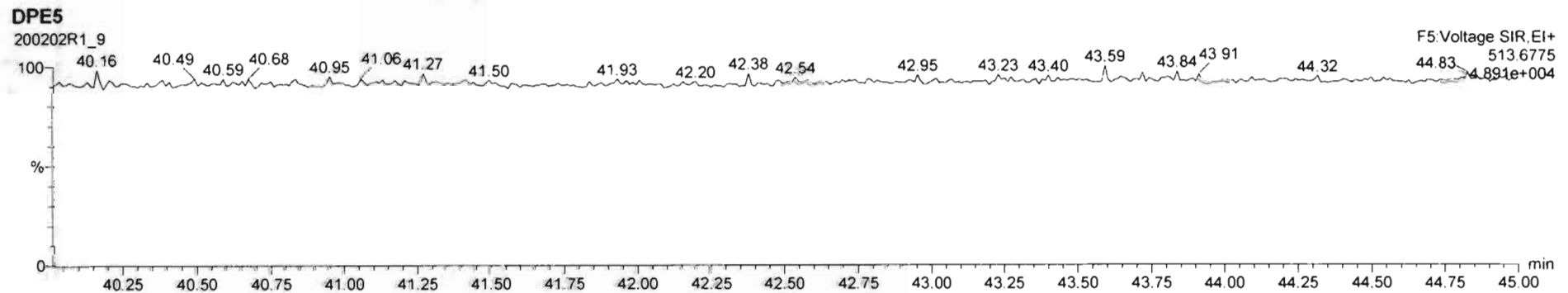
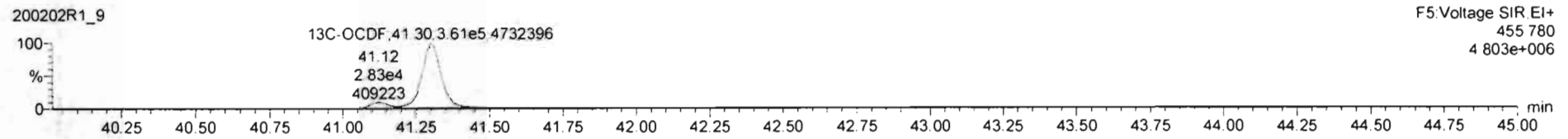
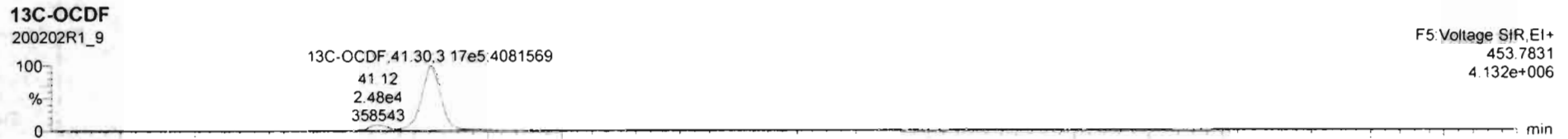
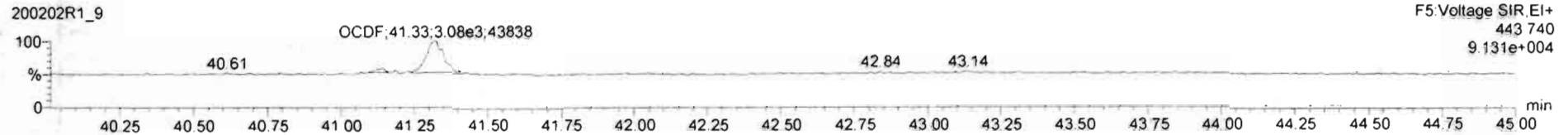
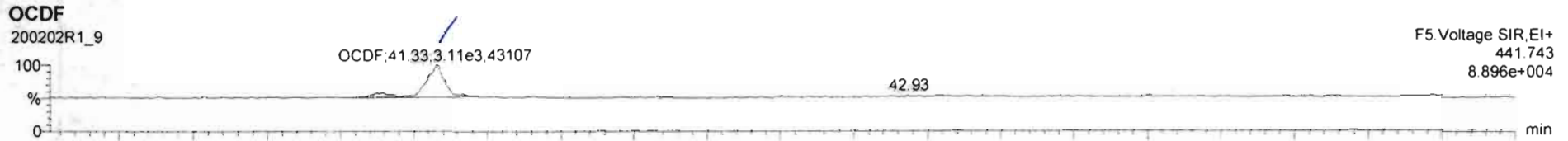
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.55	5.073e3	4.994e3	1.02	NO	4.5400	4.5400
2 Total Hepta-Furans	37.16	5.414e3	5.647e3	0.93	NO	6.0131	6.0131
3 1,2,3,4,7,8,9-HpCDF	38.57	4.701e2	4.629e2	0.97	NO	0.54173	0.54173



Dataset: Untitled

Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

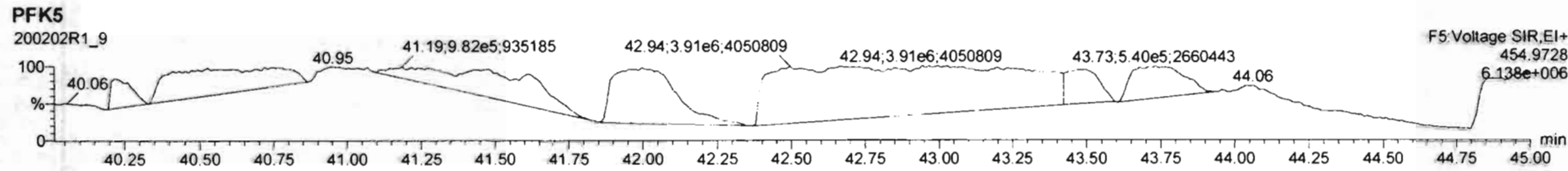
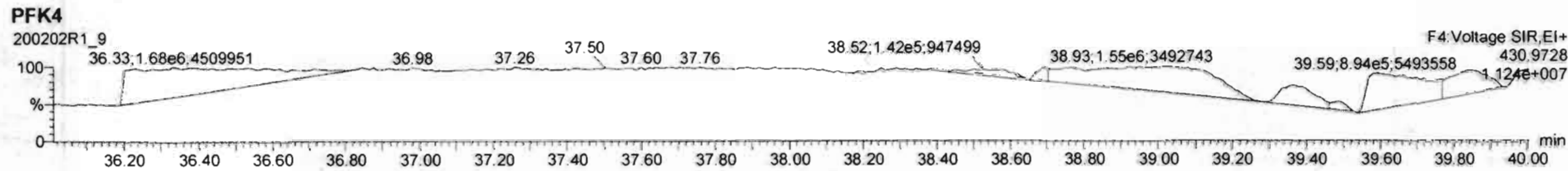
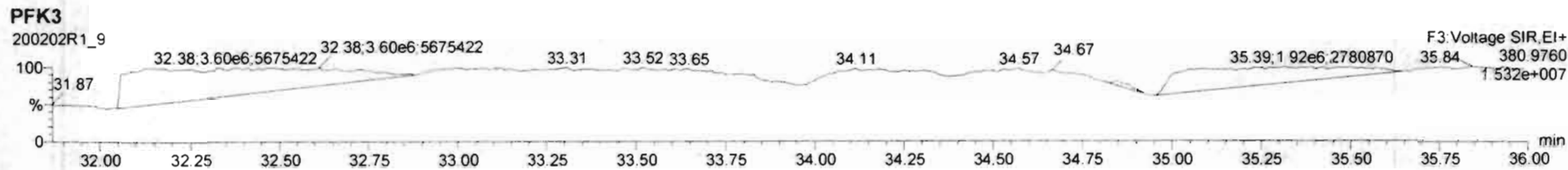
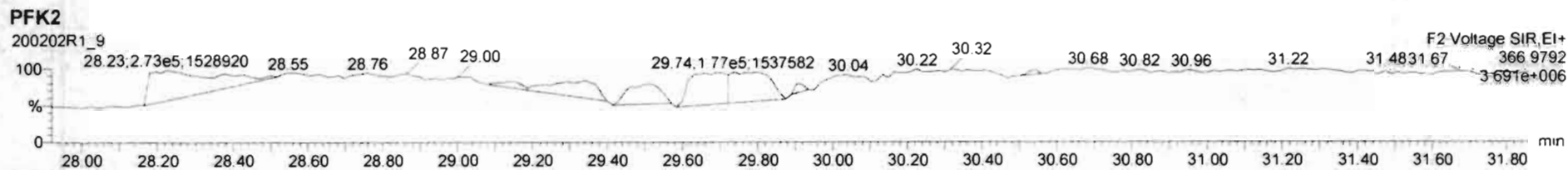
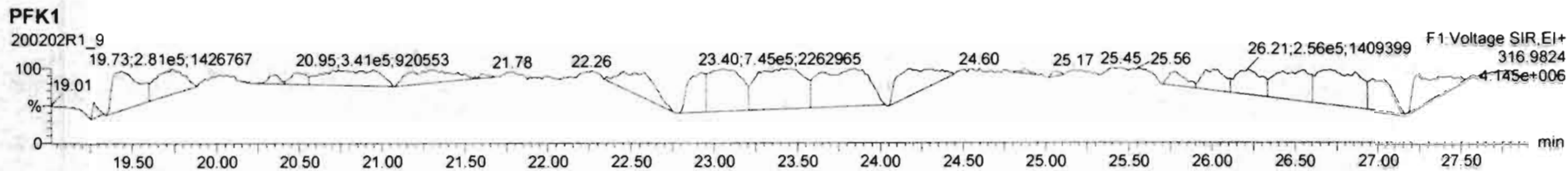
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Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_9, Date: 02-Feb-2020, Time: 16:39:50, ID: 1903654-04 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013



Dataset: U:\VG12.PRO\Results\200318R2\200318R2-6.qld

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GRB 03/19/2020

C7 03/23/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

*SEE DIL.

Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.90e3	0.74	NO	0.983	10.003	26.036	26.03	1.001	1.001	2.1914		0.158	2.19
2	2 1,2,3,7,8-PeCDD	1.98e4	0.62	NO	0.921	10.003	31.132	31.12	1.001	1.000	4.9521		0.104	4.95
3	3 1,2,3,4,7,8-HxCDD	2.95e4	1.30	NO	1.13	10.003	34.501	34.50	1.000	1.000	7.4261		0.223	7.43
4	4 1,2,3,6,7,8-HxCDD	1.46e5	1.25	NO	0.984	10.003	34.587	34.60	1.000	1.000	35.121		0.237	35.1
5	5 1,2,3,7,8,9-HxCDD	7.01e4	1.28	NO	0.967	10.003	34.863	34.86	1.000	1.000	17.590		0.240	17.6
6	6 1,2,3,4,6,7,8-HpCDD	3.97e6	1.03	NO	1.01	10.003	38.294	38.30	1.000	1.001	1062.0		1.17	1060
7	7 OCDD	4.33e7	0.89	NO	1.05	10.003	41.361	41.37	1.000	1.000	15004	EX	0.929	15000
8	8 2,3,7,8-TCDF	1.84e6	0.76	NO	0.915	10.003	25.042	25.05	1.001	1.001	418.56	UL	0.359	419
9	9 1,2,3,7,8-PeCDF	4.07e6	1.56	NO	0.959	10.003	29.818	29.83	1.001	1.001	747.36		0.337	747
10	10 2,3,4,7,8-PeCDF	2.08e6	1.54	NO	1.00	10.003	30.835	30.82	1.001	1.001	369.97		0.288	370
11	11 1,2,3,4,7,8-HxCDF	6.00e6	1.22	NO	1.04	10.003	33.639	33.65	1.000	1.000	1164.5		0.312	1160
12	12 1,2,3,6,7,8-HxCDF	1.66e6	1.18	NO	1.01	10.003	33.767	33.77	1.000	1.000	322.62		0.321	323
13	13 2,3,4,6,7,8-HxCDF	4.45e5	1.23	NO	1.09	10.003	34.355	34.33	1.001	1.000	83.853		0.337	83.9
14	14 1,2,3,7,8,9-HxCDF	6.15e5	1.21	NO	1.03	10.003	35.254	35.25	1.002	1.002	135.85		0.442	136
15	15 1,2,3,4,6,7,8-HpCDF	2.66e6	1.00	NO	1.05	10.003	36.925	36.91	1.001	1.001	647.25		0.518	647
16	16 1,2,3,4,7,8,9-HpCDF	7.31e5	1.00	NO	1.21	10.003	38.933	38.94	1.000	1.000	201.43		0.557	201
17	17 OCDF	5.49e6	0.88	NO	0.947	10.003	41.531	41.54	1.000	1.000	1606.3		0.367	1610
18	18 13C-2,3,7,8-TCDD	8.26e5	0.77	NO	1.18	10.003	25.965	26.00	1.029	1.030	122.50	61.3	0.197	
19	19 13C-1,2,3,7,8-PeCDD	8.66e5	0.63	NO	0.864	10.003	31.195	31.11	1.236	1.233	176.05	88.1	0.230	
20	20 13C-1,2,3,4,7,8-HxCDD	7.02e5	1.27	NO	0.754	10.003	34.496	34.49	1.014	1.014	163.33	81.7	0.286	
21	21 13C-1,2,3,6,7,8-HxCDD	8.46e5	1.27	NO	0.925	10.003	34.605	34.59	1.017	1.017	160.42	80.2	0.233	
22	22 13C-1,2,3,7,8,9-HxCDD	8.23e5	1.22	NO	0.829	10.003	34.867	34.85	1.025	1.024	174.19	87.1	0.260	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.43e5	1.07	NO	0.598	10.003	38.330	38.28	1.127	1.125	217.98	109	0.372	
24	24 13C-OCDD	1.10e6	0.90	NO	0.571	10.003	41.484	41.36	1.219	1.216	337.38	84.4	0.408	*
25	25 13C-2,3,7,8-TCDF	9.63e5	0.78	NO	1.09	10.003	24.978	25.02	0.990	0.991	112.82	56.4	0.271	
26	26 13C-1,2,3,7,8-PeCDF	1.14e6	1.60	NO	0.876	10.003	29.855	29.80	1.183	1.181	165.46	82.8	0.405	
27	27 13C-2,3,4,7,8-PeCDF	1.12e6	1.57	NO	0.844	10.003	30.875	30.80	1.223	1.220	169.75	84.9	0.420	
28	28 13C-1,2,3,4,7,8-HxCDF	9.92e5	0.51	NO	1.00	10.003	33.642	33.64	0.989	0.989	174.13	87.1	0.281	
29	29 13C-1,2,3,6,7,8-HxCDF	1.02e6	0.52	NO	1.12	10.003	33.751	33.76	0.992	0.992	159.62	79.8	0.251	
30	30 13C-2,3,4,6,7,8-HxCDF	9.72e5	0.52	NO	1.04	10.003	34.333	34.32	1.009	1.009	164.83	82.4	0.271	
31	31 13C-1,2,3,7,8,9-HxCDF	8.82e5	0.52	NO	0.873	10.003	35.207	35.18	1.035	1.034	177.32	88.7	0.322	

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-6.qld

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Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.82e5	0.44	NO	0.771	10.003	36.925	36.89	1.085	1.084	178.19	89.1	0.329	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.00e5	0.44	NO	0.519	10.003	39.014	38.93	1.147	1.144	202.71	101	0.488	
34	34 13C-OCDF	1.44e6	0.89	NO	0.696	10.003	41.665	41.53	1.225	1.221	364.06	91.0	0.253	
35	35 37Cl-2,3,7,8-TCDD	3.01e5			1.17	10.003	25.976	26.03	1.029	1.031	44.987	56.3	0.0651	
36	36 13C-1,2,3,4-TCDD	1.14e6	0.79	NO	1.00	10.003	25.050	25.24	1.000	1.000	199.94	100	0.233	
37	37 13C-1,2,3,4-TCDF	1.57e6	0.80	NO	1.00	10.003	23.190	23.46	1.000	1.000	199.94	100	0.295	
38	38 13C-1,2,3,4,6,9-HxCDF	1.14e6	0.51	NO	1.00	10.003	34.020	34.02	1.000	1.000	199.94	100	0.281	
39	39 Total Tetra-Dioxins				0.983	10.003	24.620		0.000		21.356		0.158	21.4
40	40 Total Penta-Dioxins				0.921	10.003	29.960		0.000		42.819		0.104	43.0
41	41 Total Hexa-Dioxins				0.984	10.003	33.635		0.000		284.34		0.243	284
42	42 Total Hepta-Dioxins				1.01	10.003	37.640		0.000		2289.2		1.17	2290
43	43 Total Tetra-Furans				0.915	10.003	23.610		0.000		1348.2		0.359	1350 P
44	44 1st Func. Penta-Furans				0.959	10.003	27.090		0.000		131.15		0.0542	131
45	45 Total Penta-Furans				0.959	10.003	29.275		0.000		1950.5		0.319	1970
46	46 Total Hexa-Furans				1.09	10.003	33.555		0.000		2180.7		0.334	2200 P
47	47 Total Hepta-Furans				1.05	10.003	37.835		0.000		1936.0		0.572	1940

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-6.qld

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Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.92	9.627e4	1.347e5	1.273e4	1.625e4	0.78	NO	2.897e4	7.1316	7.1316	0.158
2	Total Tetra-Dioxins	22.47	2.460e4	3.617e4	3.149e3	4.202e3	0.75	NO	7.351e3	1.8095	1.8095	0.158
3	Total Tetra-Dioxins	22.70	2.384e4	3.196e4	1.263e3	1.667e3	0.76	NO	2.930e3	0.72123	0.72123	0.158
4	Total Tetra-Dioxins	23.80	7.225e3	1.244e4	9.330e2	1.194e3	0.78	NO	2.127e3	0.52345	0.52345	0.158
5	Total Tetra-Dioxins	24.06	3.155e4	4.264e4	1.567e3	1.864e3	0.84	NO	3.431e3	0.84458	0.84458	0.158
6	Total Tetra-Dioxins	24.13	5.578e4	7.004e4	3.023e3	3.770e3	0.80	NO	6.793e3	1.6721	1.6721	0.158
7	Total Tetra-Dioxins	24.33	1.162e4	1.251e4	8.870e2	1.159e3	0.77	NO	2.046e3	0.50360	0.50360	0.158
8	Total Tetra-Dioxins	24.64	8.342e3	1.129e4	6.617e2	7.796e2	0.85	NO	1.441e3	0.35478	0.35478	0.158
9	Total Tetra-Dioxins	24.82	1.824e4	2.467e4	1.678e3	2.099e3	0.80	NO	3.777e3	0.92980	0.92980	0.158
10	Total Tetra-Dioxins	25.23	1.554e4	1.569e4	1.064e3	1.436e3	0.74	NO	2.500e3	0.61535	0.61535	0.158
11	Total Tetra-Dioxins	25.39	4.837e3	7.019e3	3.468e2	4.379e2	0.79	NO	7.846e2	0.19314	0.19314	0.158
12	Total Tetra-Dioxins	25.72	2.624e4	4.253e4	3.463e3	4.314e3	0.80	NO	7.777e3	1.9143	1.9143	0.158
13	Total Tetra-Dioxins	25.89	5.535e3	9.662e3	4.006e2	4.916e2	0.81	NO	8.921e2	0.21961	0.21961	0.158
14	2,3,7,8-TCDD	26.03	5.474e4	6.708e4	3.774e3	5.129e3	0.74	NO	8.903e3	2.1914	2.1914	0.158
15	Total Tetra-Dioxins	26.35	3.573e4	4.189e4	1.992e3	2.345e3	0.85	NO	4.337e3	1.0675	1.0675	0.158
16	Total Tetra-Dioxins	26.48	6.754e3	6.933e3	3.961e2	5.258e2	0.75	NO	9.218e2	0.22692	0.22692	0.158
17	Total Tetra-Dioxins	27.01	9.108e3	1.032e4	7.037e2	1.073e3	0.66	NO	1.776e3	0.43724	0.43724	0.158

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Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:52, ID: 1903654-05RE3-PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	2.402e5	3.811e5	1.786e4	2.889e4	0.62	NO	4.674e4	11.709	11.709	0.104
2	Total Penta-Dioxins	29.34	6.580e4	1.003e5	3.946e3	6.064e3	0.65	NO	1.001e4	2.5075	2.5075	0.104
3	Total Penta-Dioxins	29.86	1.925e5	3.028e5	1.093e4	1.673e4	0.65	NO	2.766e4	6.9289	6.9289	0.104
4	Total Penta-Dioxins	30.04	1.255e5	2.011e5	7.316e3	1.160e4	0.63	NO	1.892e4	4.7390	4.7390	0.104
5	Total Penta-Dioxins	30.13	8.954e4	1.360e5	4.747e3	7.165e3	0.66	NO	1.191e4	2.9840	2.9840	0.104
6	Total Penta-Dioxins	30.35	1.025e5	1.636e5	8.002e3	1.279e4	0.63	NO	2.080e4	5.2094	5.2094	0.104
7	Total Penta-Dioxins	30.68	2.379e4	3.343e4	1.177e3	1.832e3	0.64	NO	3.008e3	0.75362	0.75362	0.104
8	1,2,3,7,8-PeCDD	31.12	1.496e5	2.385e5	7.598e3	1.217e4	0.62	NO	1.977e4	4.9521	4.9521	0.104
9	Total Penta-Dioxins	31.20	3.609e4	5.813e4	2.302e3	3.339e3	0.69	NO	5.641e3	1.4130	1.4130	0.104
10	Total Penta-Dioxins	31.42	9.996e3	9.486e3	4.783e2	5.035e2	0.95	YES	0.000e0	0.00000	0.20557	0.104
11	Total Penta-Dioxins	31.51	4.592e4	7.856e4	2.585e3	3.893e3	0.66	NO	6.477e3	1.6226	1.6226	0.104

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.03	4.373e6	3.534e6	1.998e5	1.597e5	1.25	NO	3.595e5	92.402	92.402	0.243
2	Total Hexa-Dioxins	33.59	5.525e5	4.792e5	2.704e4	2.238e4	1.21	NO	4.942e4	12.704	12.704	0.243
3	Total Hexa-Dioxins	33.84	3.707e6	3.040e6	2.386e5	1.928e5	1.24	NO	4.314e5	110.88	110.88	0.243
4	Total Hexa-Dioxins	33.94	1.942e5	1.438e5	1.008e4	7.494e3	1.35	NO	1.758e4	4.5179	4.5179	0.243
5	1,2,3,4,7,8-HxCDD	34.50	3.154e5	2.473e5	1.665e4	1.286e4	1.30	NO	2.951e4	7.4261	7.4261	0.223
6	1,2,3,6,7,8-HxCDD	34.60	1.433e6	1.197e6	8.114e4	6.512e4	1.25	NO	1.463e5	35.121	35.121	0.237
7	Total Hexa-Dioxins	34.78	1.481e5	1.289e5	8.022e3	6.364e3	1.26	NO	1.439e4	3.6980	3.6980	0.243
8	1,2,3,7,8,9-HxCDD	34.86	6.946e5	5.665e5	3.934e4	3.071e4	1.28	NO	7.006e4	17.590	17.590	0.240

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.29	3.068e7	3.001e7	2.326e6	2.262e6	1.03	NO	4.588e6	1227.2	1227.2	1.17
2	1,2,3,4,6,7,8-HpCDD	38.30	2.542e7	2.473e7	2.014e6	1.956e6	1.03	NO	3.970e6	1062.0	1062.0	1.17

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-6.qld

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File Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.73	2.499e4	2.889e4	2.063e3	2.598e3	0.79	NO	4.661e3	1.0573	1.0573	0.359
2	Total Tetra-Furans	20.26	1.373e5	1.733e5	1.113e4	1.469e4	0.76	NO	2.582e4	5.8574	5.8574	0.359
3	Total Tetra-Furans	20.78	5.180e4	6.410e4	3.580e3	5.363e3	0.67	NO	8.942e3	2.0287	2.0287	0.359
4	Total Tetra-Furans	20.90	4.490e6	5.992e6	4.417e5	5.845e5	0.76	NO	1.026e6	232.82	232.82	0.359
5	Total Tetra-Furans	21.42	1.364e5	1.907e5	2.502e4	3.274e4	0.76	NO	5.776e4	13.103	13.103	0.359
6	Total Tetra-Furans	21.86	9.142e5	1.155e6	1.134e5	1.484e5	0.76	NO	2.618e5	59.399	59.399	0.359
7	Total Tetra-Furans	22.52	2.247e5	2.822e5	2.630e4	3.481e4	0.76	NO	6.112e4	13.866	13.866	0.359
8	Total Tetra-Furans	22.68	8.958e5	1.122e6	2.487e4	3.234e4	0.77	NO	5.721e4	12.978	12.978	0.359
9	Total Tetra-Furans	23.06	7.486e4	9.209e4	4.422e3	5.834e3	0.76	NO	1.026e4	2.3266	2.3266	0.359
10	Total Tetra-Furans	23.21	4.025e4	4.854e4	4.430e3	5.686e3	0.78	NO	1.012e4	2.2949	2.2949	0.359
11	Total Tetra-Furans	23.48	8.016e5	1.085e6	1.031e5	1.368e5	0.75	NO	2.399e5	54.432	54.432	0.359
12	Total Tetra-Furans	24.09	2.520e7	3.300e7	7.406e5	9.697e5	0.76	NO	1.710e6	388.01	388.01	0.359
13	Total Tetra-Furans	24.28	2.805e5	3.674e5	2.263e4	2.925e4	0.77	NO	5.188e4	11.768	11.768	0.359
14	Total Tetra-Furans	24.51	4.012e4	4.881e4	3.616e3	4.277e3	0.85	NO	7.893e3	1.7907	1.7907	0.359
15	Total Tetra-Furans	24.76	1.248e5	1.627e5	1.013e4	1.347e4	0.75	NO	2.360e4	5.3549	5.3549	0.359
16	Total Tetra-Furans	24.90	9.054e5	1.204e6	7.438e4	9.757e4	0.76	NO	1.720e5	39.009	39.009	0.359
17	2,3,7,8-TCDF	25.05	9.081e6	1.186e7	7.964e5	1.049e6	0.76	NO	1.845e6	418.56	418.56	0.359
18	Total Tetra-Furans	25.18	5.724e4	8.185e4	3.616e3	5.407e3	0.67	NO	9.023e3	2.0469	2.0469	0.359
19	Total Tetra-Furans	25.41	6.471e5	8.227e5	4.500e4	5.839e4	0.77	NO	1.034e5	23.455	23.455	0.359
20	Total Tetra-Furans	25.68	3.446e4	5.023e4	3.480e3	4.622e3	0.75	NO	8.102e3	1.8379	1.8379	0.359
21	Total Tetra-Furans	26.57	3.714e4	2.222e4	1.856e3	1.211e3	1.53	YES	0.000e0	0.00000	0.48631	0.359
22	Total Tetra-Furans	26.65	6.464e4	8.242e4	4.817e3	5.925e3	0.81	NO	1.074e4	2.4369	2.4369	0.359
23	Total Tetra-Furans	26.83	7.358e4	1.087e5	5.903e3	7.048e3	0.84	NO	1.295e4	2.9380	2.9380	0.359
24	Total Tetra-Furans	27.22	1.022e6	1.145e6	1.027e5	1.212e5	0.85	NO	2.239e5	50.787	50.787	0.359

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.23	6.040e6	3.874e6	4.345e5	2.759e5	1.57	NO	7.105e5	131.15	131.15	0.0542

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Dataset: U:\VG12.PRO\Results\200318R2\200318R2-6.qld

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Name: 200318R2_6; Date: 19-Mar-2020; Time: 07:29:56; ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.64	6.682e5	4.233e5	4.049e4	2.632e4	1.54	NO	6.681e4	12.332	12.332	0.319
2	Total Penta-Furans	28.79	1.639e7	1.045e7	1.128e6	7.258e5	1.55	NO	1.854e6	342.23	342.23	0.319
3	Total Penta-Furans	29.32	8.562e4	5.203e4	3.693e3	2.505e3	1.47	NO	6.198e3	1.1442	1.1442	0.319
4	Total Penta-Furans	29.40	8.747e5	5.957e5	5.541e4	3.565e4	1.55	NO	0.000e0	0.00000	16.810	0.319
5	Total Penta-Furans	29.45	5.004e5	3.055e5	2.249e4	1.387e4	1.62	NO	0.000e0	0.00000	6.7112	0.319
6	Total Penta-Furans	29.63	4.856e6	3.131e6	2.876e5	1.841e5	1.56	NO	4.717e5	87.075	87.075	0.319
7	1,2,3,7,8-PeCDF	29.83	3.983e7	2.499e7	2.484e6	1.590e6	1.56	NO	4.074e6	747.36	747.36	0.337
8	Total Penta-Furans	29.90	7.201e5	4.154e5	2.489e4	1.437e4	1.73	NO	3.926e4	7.2471	7.2471	0.319
9	Total Penta-Furans	30.09	1.619e7	1.054e7	9.626e5	6.226e5	1.55	NO	1.585e6	292.61	292.61	0.319
10	Total Penta-Furans	30.70	4.367e5	2.769e5	2.238e4	1.394e4	1.61	NO	3.632e4	6.7039	6.7039	0.319
11	2,3,4,7,8-PeCDF	30.82	2.496e7	1.591e7	1.263e6	8.197e5	1.54	NO	2.083e6	369.97	369.97	0.288
12	Total Penta-Furans	30.85	1.046e7	6.575e6	2.017e5	1.271e5	1.59	NO	3.289e5	60.711	60.711	0.319
13	Total Penta-Furans	31.75	1.477e6	9.580e5	7.567e4	4.972e4	1.52	NO	1.254e5	23.147	23.147	0.319

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.52	1.124e6	9.462e5	7.901e4	6.521e4	1.21	NO	1.442e5	27.340	27.340	0.334
2	Total Hexa-Furans	32.57	5.957e5	5.391e5	1.853e4	1.574e4	1.18	NO	3.427e4	6.4969	6.4969	0.334
3	Total Hexa-Furans	32.67	1.691e7	1.449e7	5.961e5	4.934e5	1.21	NO	1.089e6	206.55	206.55	0.334
4	Total Hexa-Furans	33.01	1.951e5	1.640e5	8.966e3	7.520e3	1.19	NO	1.649e4	3.1255	3.1255	0.334
5	Total Hexa-Furans	33.19	1.223e7	1.009e7	5.866e5	4.819e5	1.22	NO	1.068e6	202.56	202.56	0.334
6	Total Hexa-Furans	33.55	7.763e5	6.300e5	3.625e4	2.804e4	1.29	NO	6.428e4	12.187	12.187	0.334
7	1,2,3,4,7,8-HxCDF	33.65	6.846e7	5.742e7	3.292e6	2.707e6	1.22	NO	6.000e6	1164.5	1164.5	0.312
8	1,2,3,6,7,8-HxCDF	33.77	1.763e7	1.449e7	8.999e5	7.609e5	1.18	NO	1.661e6	322.62	322.62	0.321
9	Total Hexa-Furans	33.87	3.010e5	2.242e5	1.901e4	1.434e4	1.33	NO	3.335e4	6.3226	6.3226	0.334
10	Total Hexa-Furans	34.03	3.279e5	2.481e5	2.011e4	1.567e4	1.28	NO	3.578e4	6.7829	6.7829	0.334
11	Total Hexa-Furans	34.14	1.130e5	9.363e4	7.540e3	5.683e3	1.33	NO	1.322e4	2.5068	2.5068	0.334
12	Total Hexa-Furans	34.24	1.089e5	7.411e4	5.996e3	3.954e3	1.52	YES	0.000e0	0.00000	1.6794	0.334
13	2,3,4,6,7,8-HxCDF	34.33	4.441e6	3.692e6	2.452e5	2.000e5	1.23	NO	4.453e5	83.853	83.853	0.337
14	1,2,3,7,8,9-HxCDF	35.25	6.039e6	5.074e6	3.368e5	2.786e5	1.21	NO	6.153e5	135.85	135.85	0.442
15	Total Hexa-Furans	35.27	2.922e6	2.231e6	4.868e4	3.732e4	1.30	NO	0.000e0	0.00000	16.303	0.334

Vista Analytical Laboratory

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Sample: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RES, PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.91	1.868e7	1.842e7	1.330e6	1.326e6	1.00	NO	2.655e6	647.25	647.25	0.518
2	Total Hepta-Furans	37.28	2.911e5	2.857e5	2.017e4	2.062e4	0.98	NO	4.079e4	11.257	11.257	0.572
3	Total Hepta-Furans	37.49	2.474e7	2.429e7	1.960e6	1.939e6	1.01	NO	3.899e6	1076.1	1076.1	0.572
4	1,2,3,4,7,8,9-HpCDF	38.94	5.398e6	5.376e6	3.661e5	3.649e5	1.00	NO	7.310e5	201.43	201.43	0.557

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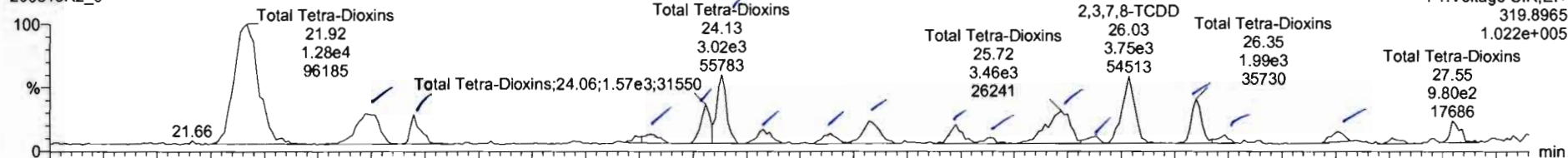
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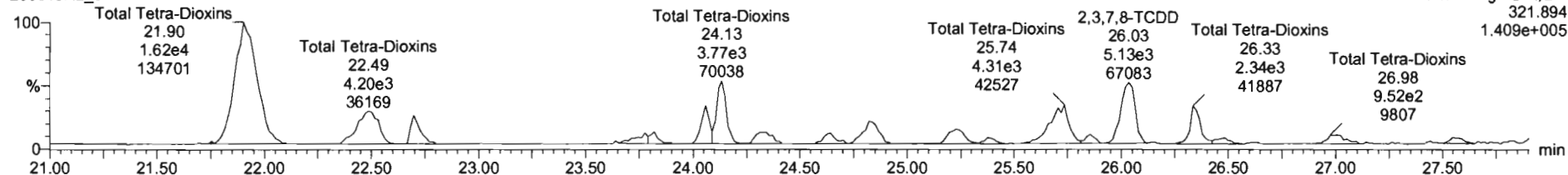
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2,3,7,8-TCDD

200318R2_6

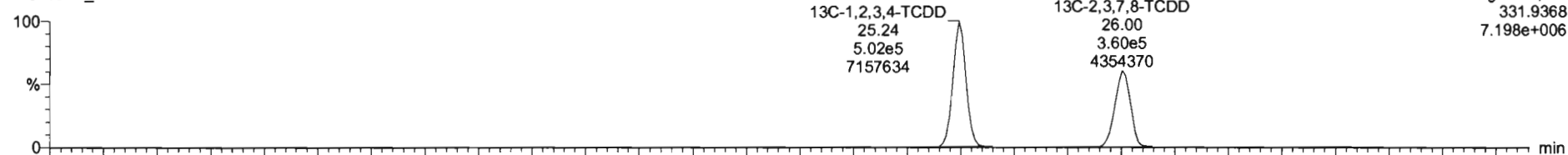


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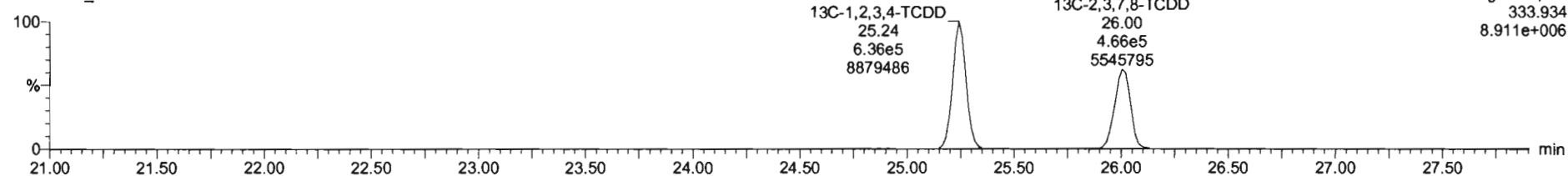


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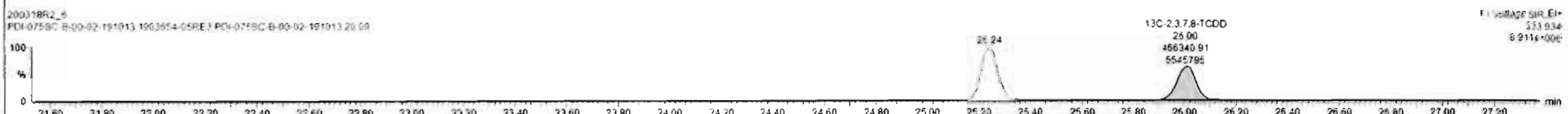
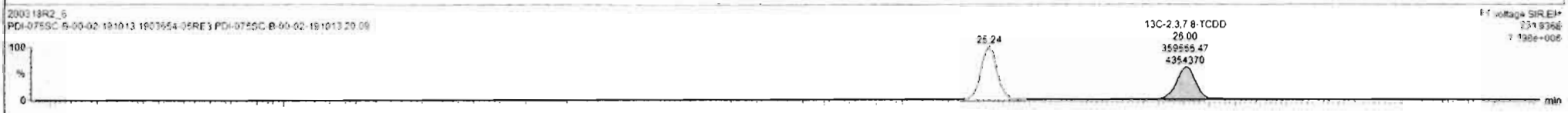
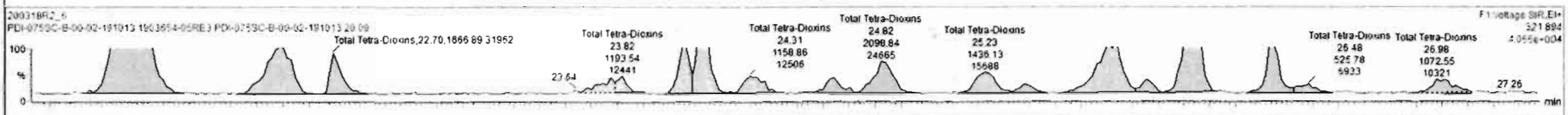
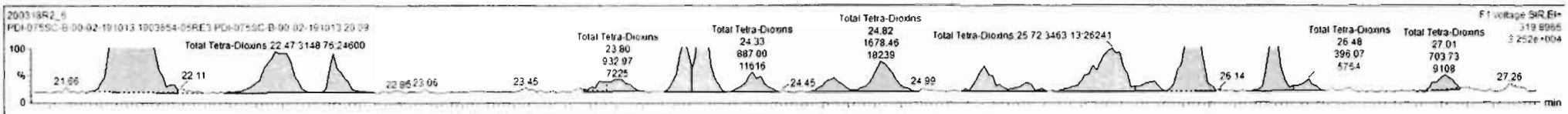


200318R2_6



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.003			21.4		0.156	21.4
40 Total Penta-Dioxins				0.8212	10.003			43.1		0.104	43.1

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.92	1.273e4	1.625e4	0.78	NO	7.1316	7.1316
2 Total Tetra-Dioxins	22.47	3.149e3	4.202e3	0.75	NO	1.8095	1.8095
3 Total Tetra-Dioxins	22.79	1.283e3	1.667e3	0.76	NO	0.72123	0.72123
4 Total Tetra-Dioxins	23.80	9.730e2	1.194e3	0.78	NO	0.52345	0.52345
5 Total Tetra-Dioxins	24.06	1.567e3	1.864e3	0.84	NO	0.84458	0.84458
6 Total Tetra-Dioxins	24.13	3.023e3	3.770e3	0.80	NO	1.6721	1.6721
7 Total Tetra-Dioxins	24.23	8.870e2	1.159e3	0.77	NO	0.50360	0.50360
8 Total Tetra-Dioxins	24.64	6.617e2	7.796e2	0.65	NO	0.35478	0.35478
9 Total Tetra-Dioxins	24.82	1.678e3	2.099e3	0.80	NO	0.92980	0.92980
10 Total Tetra-Dioxins	25.23	1.064e3	1.436e3	0.74	NO	0.61535	0.61535
11 Total Tetra-Dioxins	25.35	3.466e2	4.379e2	0.79	NO	0.19314	0.19314
12 Total Tetra-Dioxins	25.72	3.463e3	4.314e3	0.80	NO	1.9143	1.9143
13 Total Tetra-Dioxins	25.89	4.006e2	4.916e2	0.81	NO	0.21961	0.21961
14 2,3,7,8-TCDD	26.03	3.774e2	5.129e2	0.74	NO	2.1914	2.1914
15 Total Tetra-Dioxins	26.35	1.992e3	2.345e3	0.85	NO	1.0675	1.0675
16 Total Tetra-Dioxins	26.48	3.961e2	5.258e2	0.75	NO	0.22692	0.22692



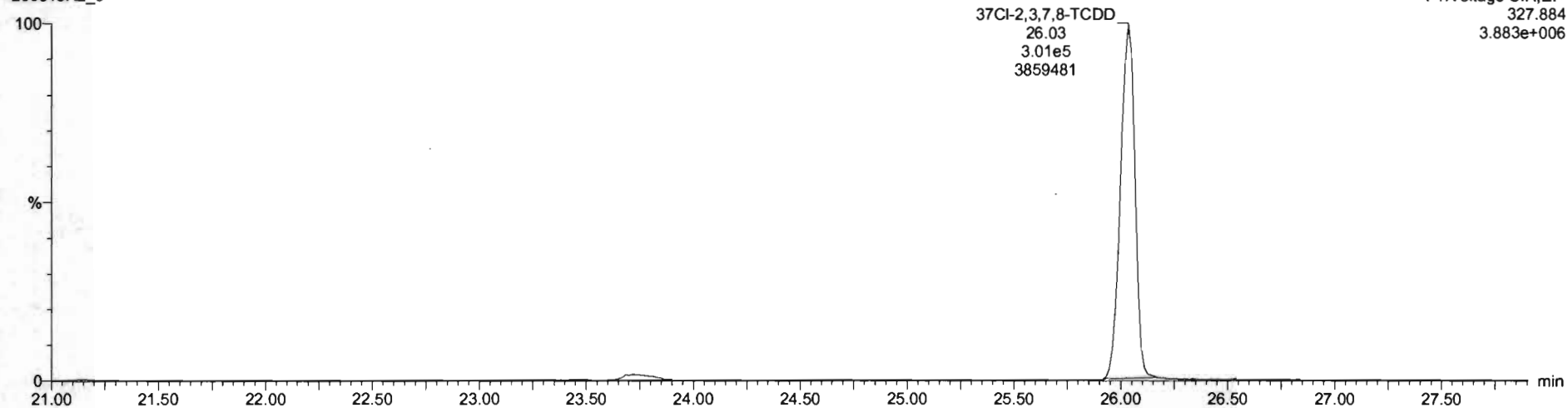
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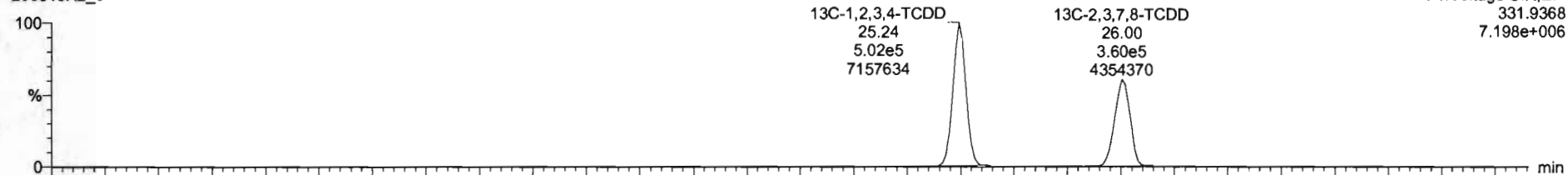
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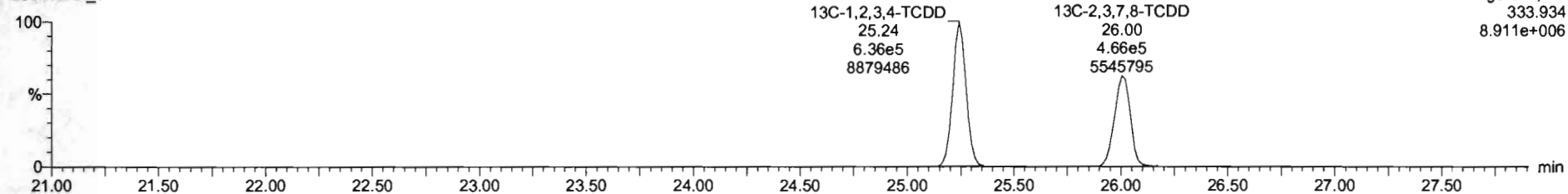


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200318R2_6



200318R2_6



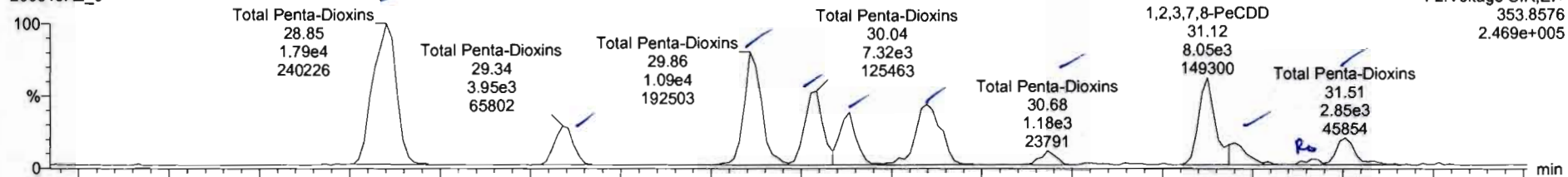
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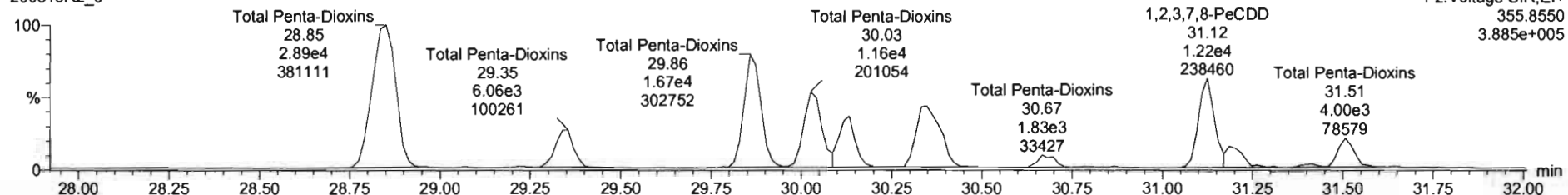
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1,2,3,7,8-PeCDD

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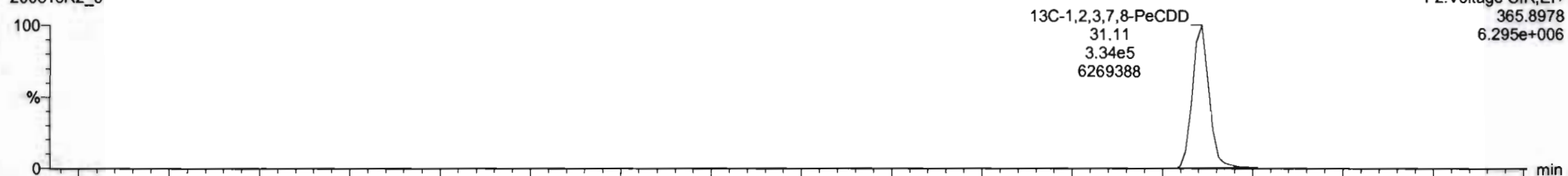


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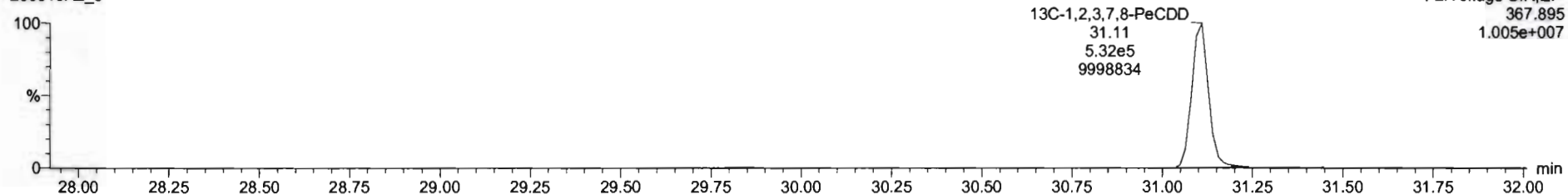


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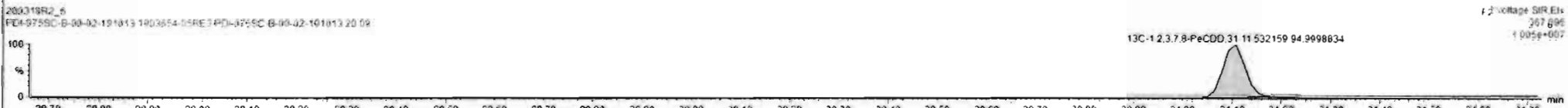
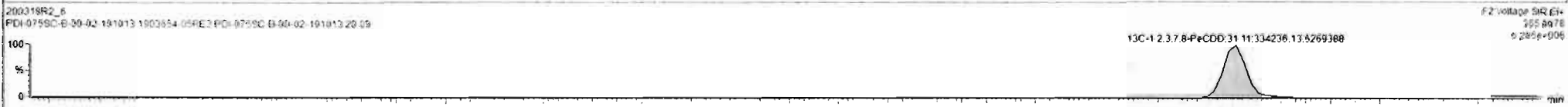
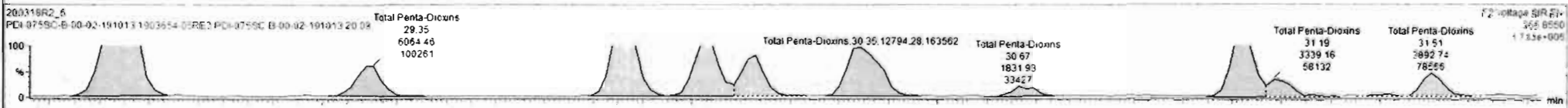
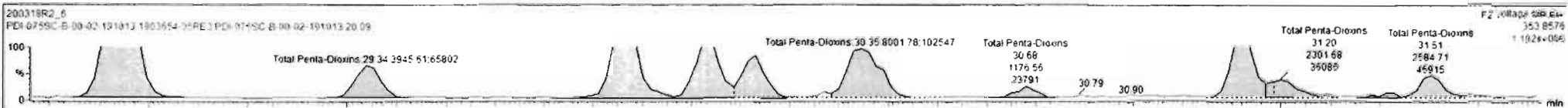


200318R2_6



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9035	10.003			21.4		0.156	21.4
40 Total Penta-Dioxins				0.0212	10.003			42.0		0.104	43.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.65	1.786e4	2.889e4	0.62	NO	11.709	11.709
2 Total Penta-Dioxins	29.34	3.946e3	6.064e3	0.65	NO	2.5075	2.5075
3 Total Penta-Dioxins	29.86	1.093e4	1.673e4	0.65	NO	6.9289	6.9289
4 Total Penta-Dioxins	30.04	7.216e3	1.160e4	0.63	NO	4.7390	4.7390
5 Total Penta-Dioxins	30.13	4.747e3	7.195e3	0.66	NO	2.9840	2.9840
6 Total Penta-Dioxins	30.35	6.002e3	1.279e4	0.63	NO	5.2094	5.2094
7 Total Penta-Dioxins	30.68	1.177e3	1.832e3	0.64	NO	0.75362	0.75362
8 1,2,3,7,8-PeCDD	31.12	7.596e3	1.217e4	0.62	NO	4.9521	4.9521
9 Total Penta-Dioxins	31.20	2.302e3	3.339e3	0.69	NO	1.4130	1.4130
10 Total Penta-Dioxins	31.42	4.783e2	5.035e2	0.95	YES	0.20557	0.00000
11 Total Penta-Dioxins	31.51	2.585e3	3.891e3	0.66	NO	1.6226	1.6226



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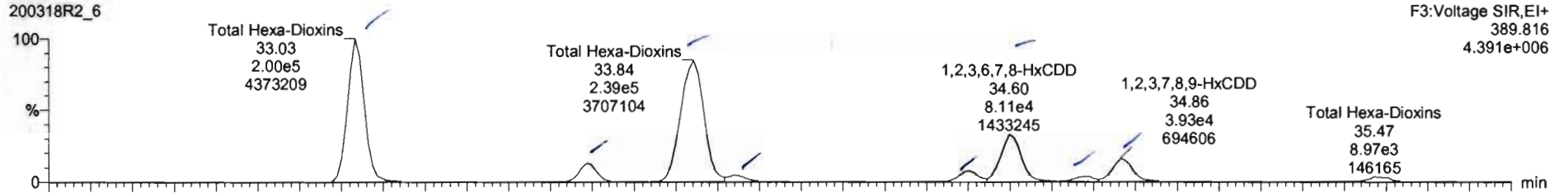
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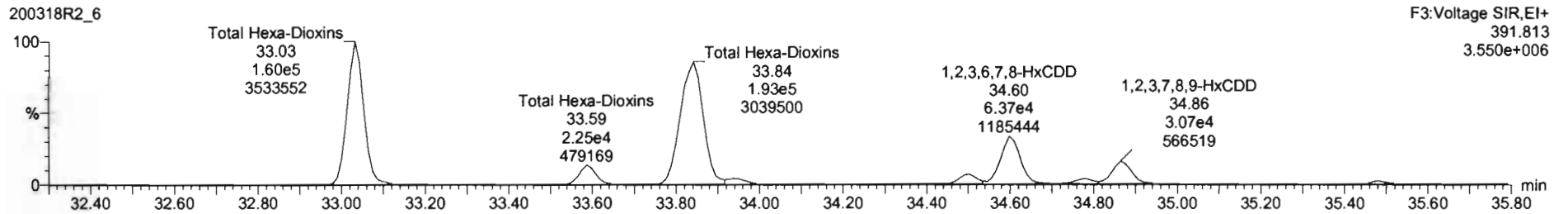
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1,2,3,4,7,8-HxCDD

200318R2_6

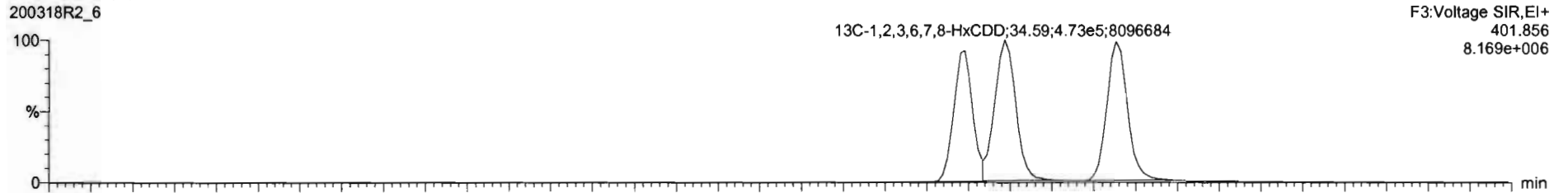


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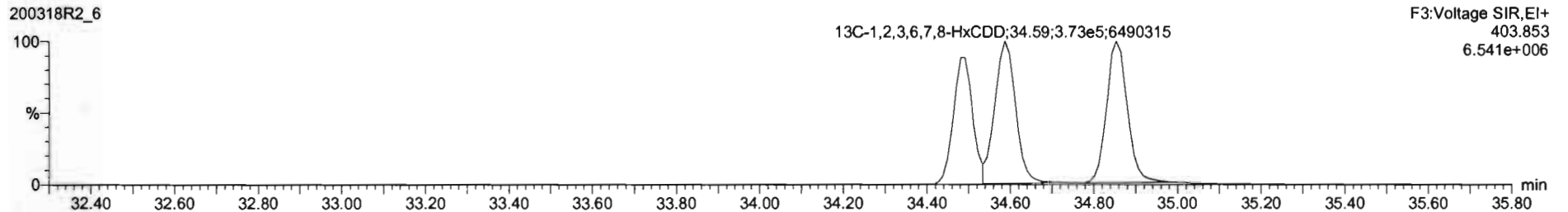


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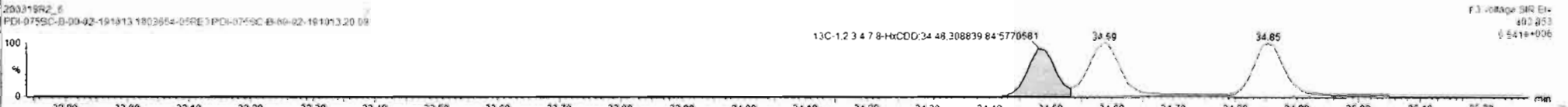
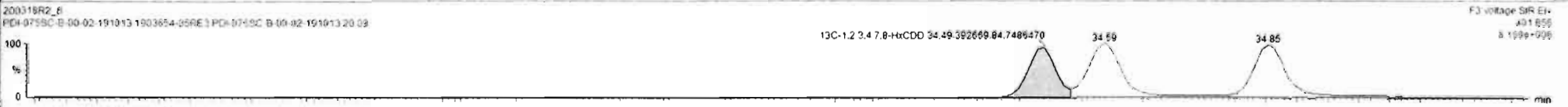
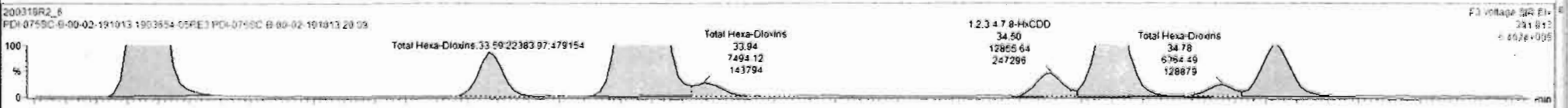
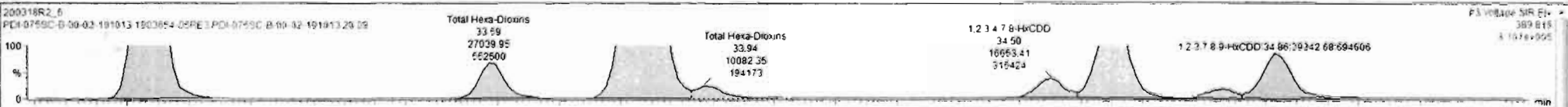


200318R2_6



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9844	10.003			264		0.243	264
42 Total Hepta-Dioxins				1.0061	10.003			2290		1.17	2290

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.03	1.996e5	1.597e5	1.25	NO	92.402	92.402
2 Total Hexa-Dioxins	33.59	2.704e4	2.238e4	1.21	NO	12.704	12.704
3 Total Hexa-Dioxins	33.84	2.386e5	1.928e5	1.24	NO	110.88	110.88
4 Total Hexa-Dioxins	33.84	1.006e4	7.494e3	1.35	NO	4.5179	4.5179
5 1,2,3,4,7,8-HxCDD	34.50	1.865e4	1.286e4	1.30	NO	7.4261	7.4261
6 1,2,3,6,7,8-HxCDD	34.60	6.114e4	6.512e4	1.25	NO	35.121	35.121
7 Total Hexa-Dioxins	34.78	6.022e3	6.364e3	1.26	NO	3.6980	3.6980
8 1,2,3,7,8,9-HxCDD	34.86	3.934e4	3.071e4	1.28	NO	17.590	17.590



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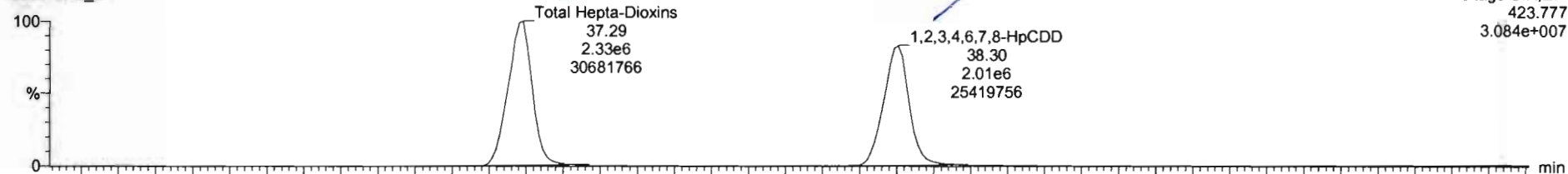
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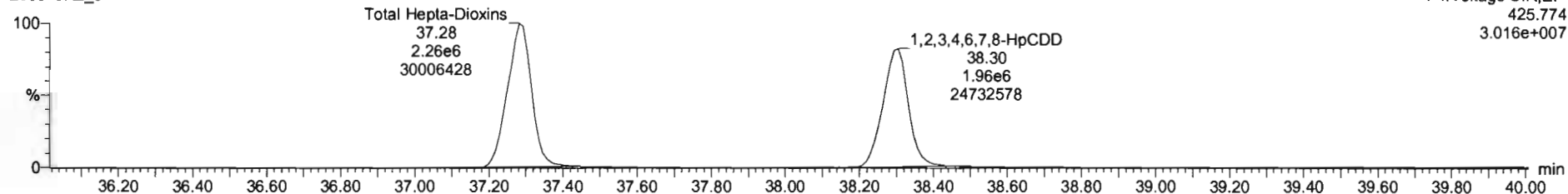
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1,2,3,4,6,7,8-HpCDD

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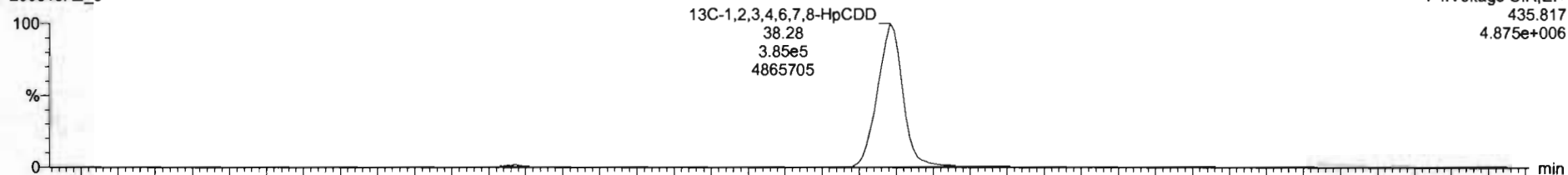


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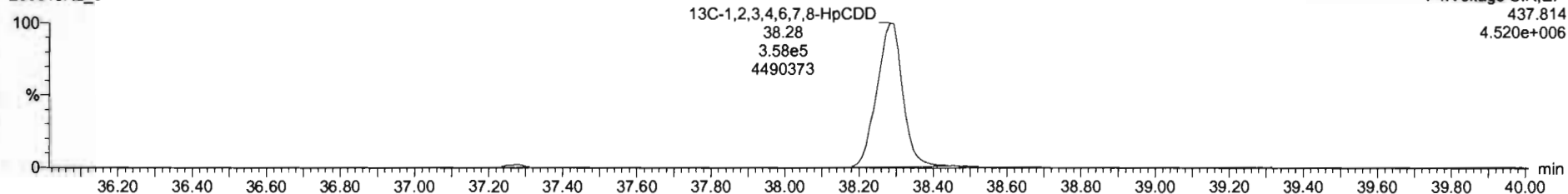


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200318R2_6



200318R2_6

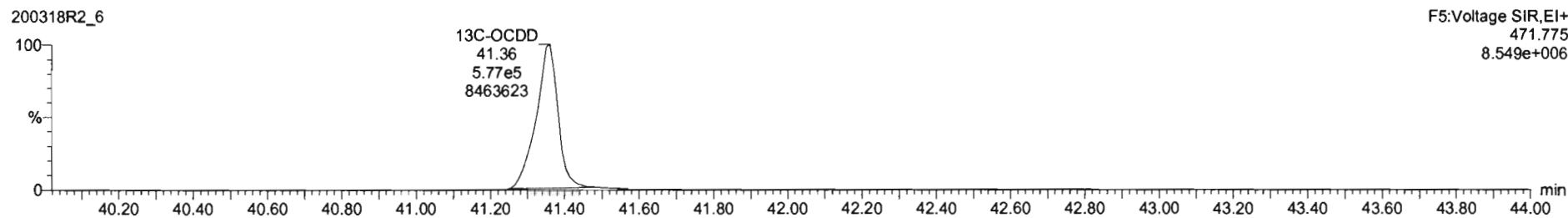
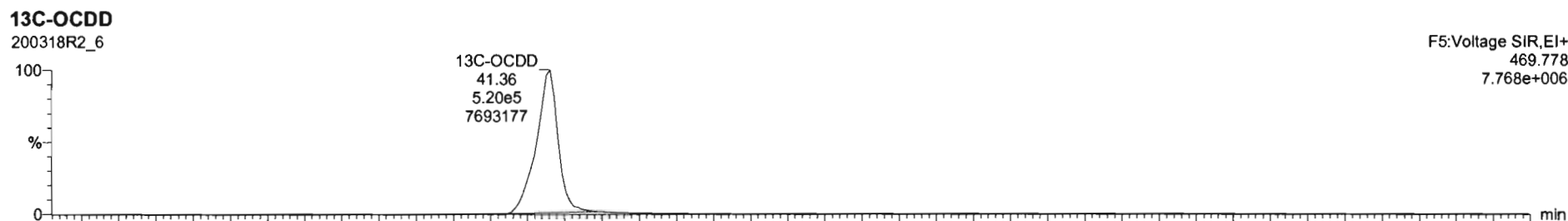
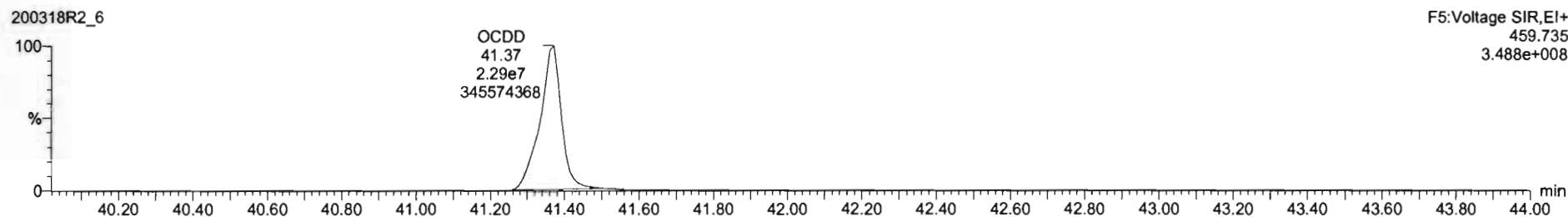
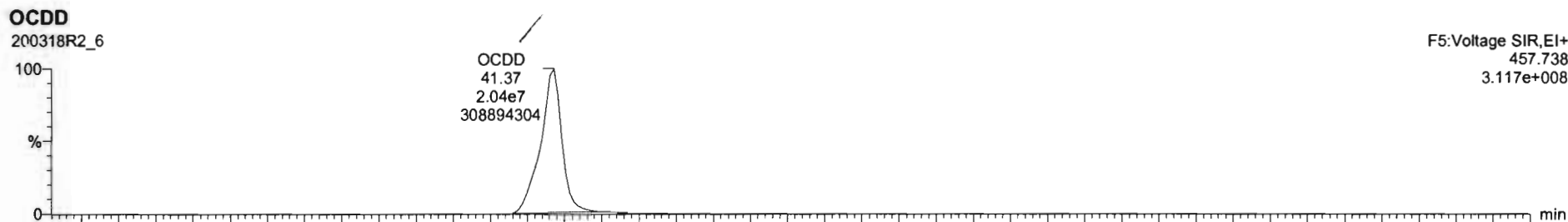


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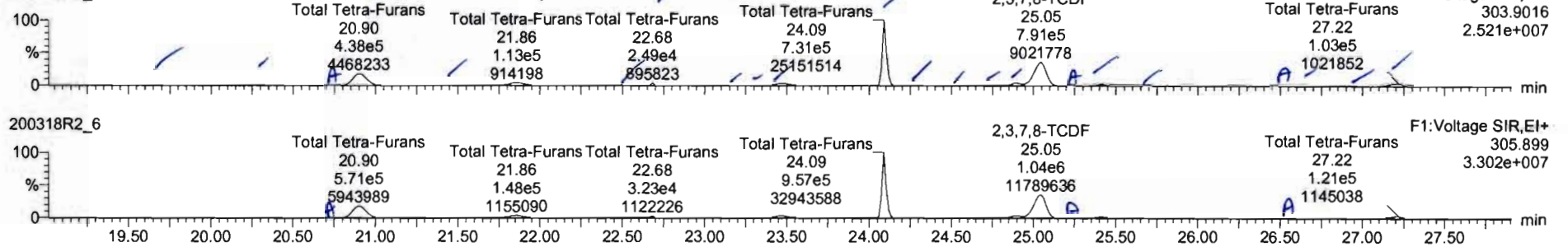
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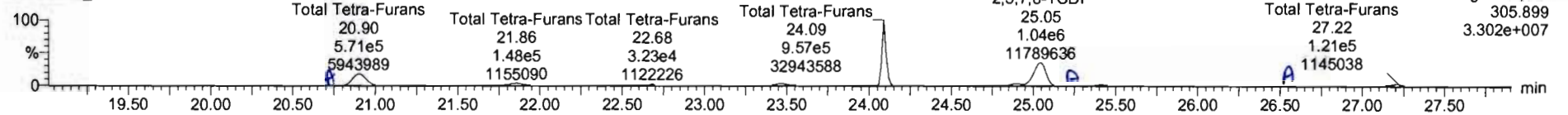
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2,3,7,8-TCDF

200318R2_6

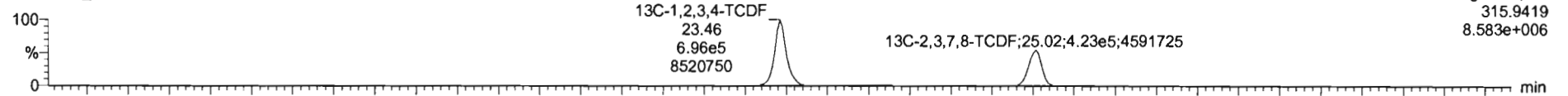


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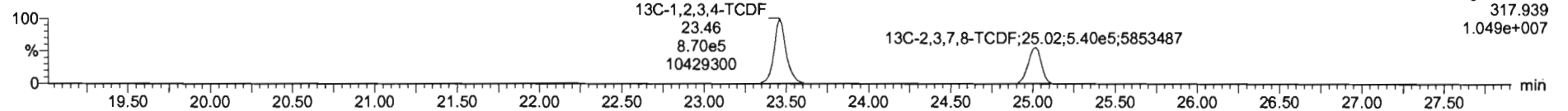


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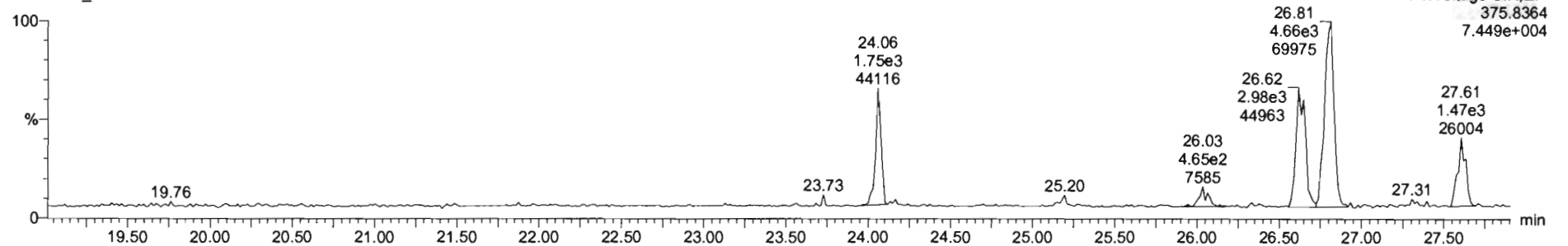


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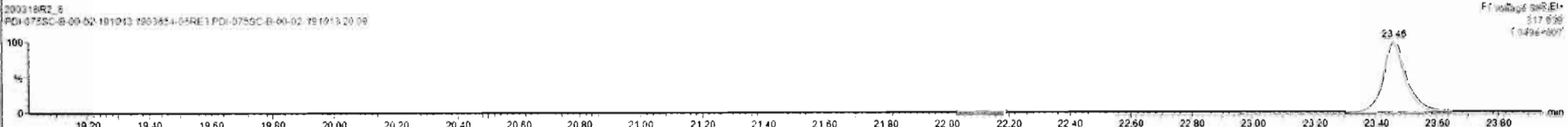
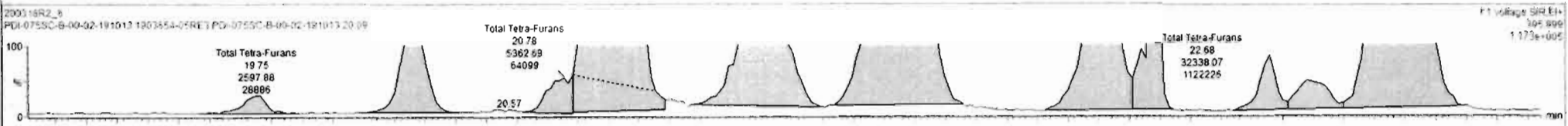
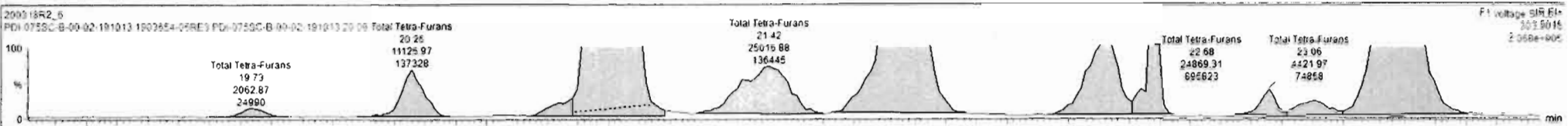
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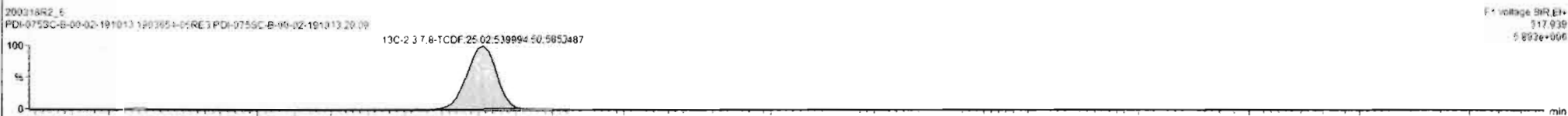
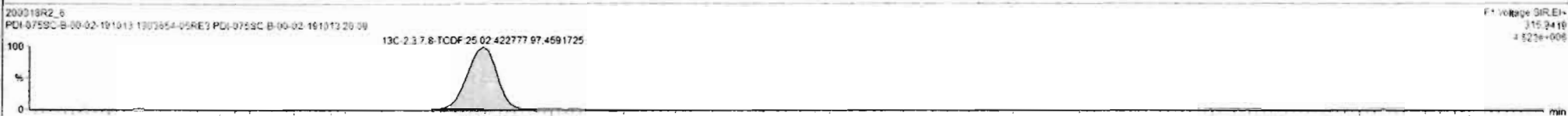
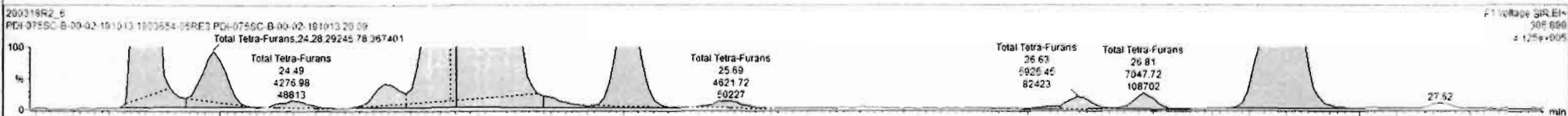
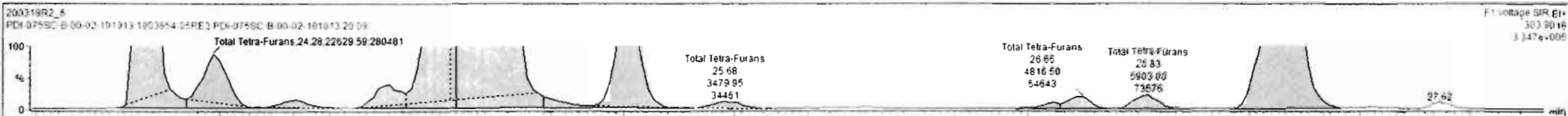
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	Et	EMPC
43 Total Tetra-Furans				0.9154	10.003			1330		0.359	1330
44 1st Func. Penta-Furans				0.9594	10.003			131		0.0542	131

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	19.73	2.063e2	2.598e2	0.75	NO	1.0572	1.0572
2 Total Tetra-Furans	20.26	1.113e4	1.469e4	0.76	NO	5.8574	5.8574
3 Total Tetra-Furans	20.76	3.580e3	5.363e3	0.67	NO	2.0287	2.0287
4 Total Tetra-Furans	20.90	4.417e5	5.845e5	0.76	NO	232.92	232.92
5 Total Tetra-Furans	21.42	2.502e4	2.274e4	0.76	NO	12.103	13.103
6 Total Tetra-Furans	21.86	1.134e5	1.484e5	0.76	NO	59.399	59.399
7 Total Tetra-Furans	22.52	2.830e4	3.481e4	0.76	NO	12.666	12.666
8 Total Tetra-Furans	22.68	2.487e4	2.234e4	0.77	NO	12.978	12.978
9 Total Tetra-Furans	23.06	4.422e3	5.634e3	0.76	NO	2.3266	2.3266
10 Total Tetra-Furans	22.21	4.430e3	5.686e3	0.76	NO	2.2949	2.2949
11 Total Tetra-Furans	22.48	1.031e5	1.368e5	0.75	NO	54.432	54.432



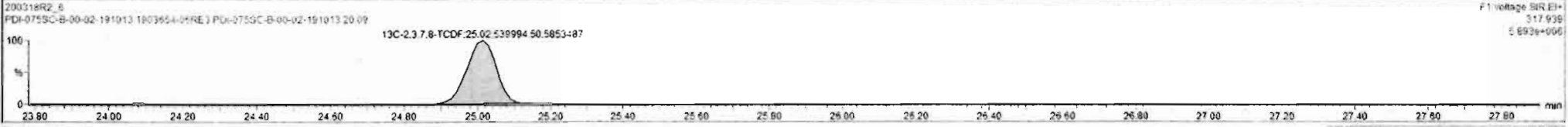
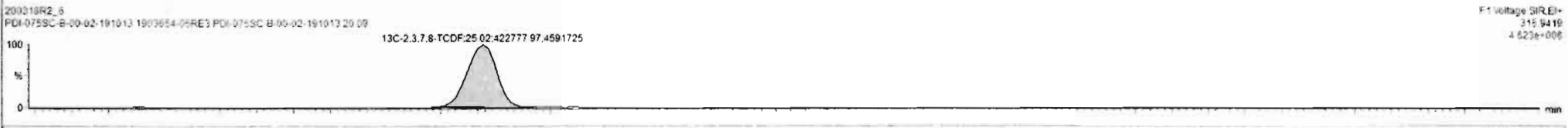
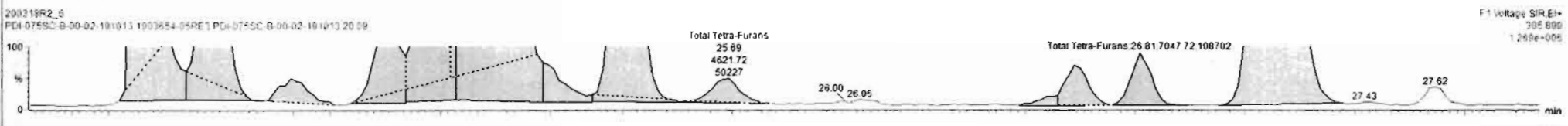
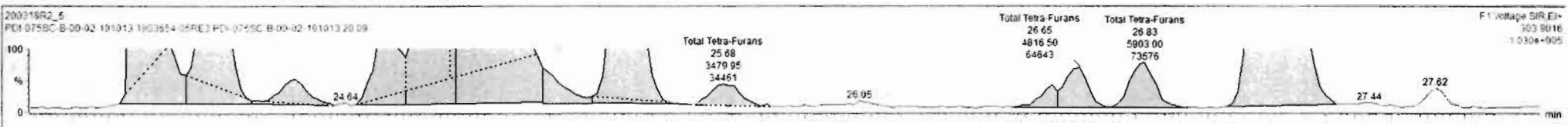
Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8154	10.003			1350		0.359	1350
44 1st Func. Penta-Furans				0.9594	10.003			131		0.0542	131

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
12 Total Tetra-Furans	24.09	7.409e5	6.697e5	0.76	NO	382.01	368.01
13 Total Tetra-Furans	24.38	2.283e4	2.925e4	0.77	NO	11.758	11.758
14 Total Tetra-Furans	24.51	3.816e3	4.277e3	0.85	NO	1.7507	1.7907
15 Total Tetra-Furans	24.76	1.012e4	1.347e4	0.75	NO	5.3549	5.3546
16 Total Tetra-Furans	24.90	7.438e4	9.757e4	0.76	NO	35.009	39.009
17 2,3,7,8-TCDF	25.05	7.994e5	1.049e6	0.76	NO	418.56	416.56
18 Total Tetra-Furans	25.16	3.816e3	5.407e3	0.67	NO	2.0465	2.9469
19 Total Tetra-Furans	25.41	4.500e4	5.839e4	0.77	NO	23.455	23.455
20 Total Tetra-Furans	25.66	3.480e3	4.822e3	0.75	NO	1.8379	1.8279
21 Total Tetra-Furans	26.57	1.356e3	1.211e3	1.53	YES	6.48631	0.00000
22 Total Tetra-Furans	26.66	4.617e3	5.925e3	0.61	NO	2.4369	2.4365
23 Total Tetra-Furans	26.63	5.903e3	7.048e3	0.84	NO	2.9380	2.9380
24 Total Tetra-Furans	27.22	1.027e5	1.212e5	0.85	NO	50.787	50.787



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.003			1350		0.359	1350
44 1st Func. Penta-Furans				0.9594	10.003			131		0.0542	131

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
12 Total Tetra-Furans	24.09	7.496e5	9.597e5	0.76	NO	386.01	368.01
13 Total Tetra-Furans	24.28	2.263e4	2.525e4	0.77	NO	11.768	11.768
14 Total Tetra-Furans	24.51	3.616e3	4.277e3	0.85	NO	1.7907	1.7907
15 Total Tetra-Furans	24.78	1.013e4	1.347e4	0.75	NO	5.3549	5.3549
16 Total Tetra-Furans	24.90	7.438e4	9.757e4	0.76	NO	39.009	39.009
17 2,3,7,8-TCDF	25.05	7.964e5	1.049e6	0.76	NO	418.56	418.56
18 Total Tetra-Furans	25.18	3.616e3	5.407e3	0.67	NO	2.0469	2.0469
19 Total Tetra-Furans	25.41	4.500e4	5.839e4	0.77	NO	23.455	23.455
20 Total Tetra-Furans	25.68	3.420e3	4.622e3	0.75	NO	1.8379	1.8379
21 Total Tetra-Furans	26.57	1.552e3	1.211e3	1.53	YES	0.46631	0.00000
22 Total Tetra-Furans	26.65	4.817e3	5.925e3	0.61	NO	2.4269	2.4269
23 Total Tetra-Furans	26.63	5.903e3	7.048e3	0.84	NO	2.9390	2.9390
24 Total Tetra-Furans	27.22	1.027e5	1.212e5	0.85	NO	50.787	50.787



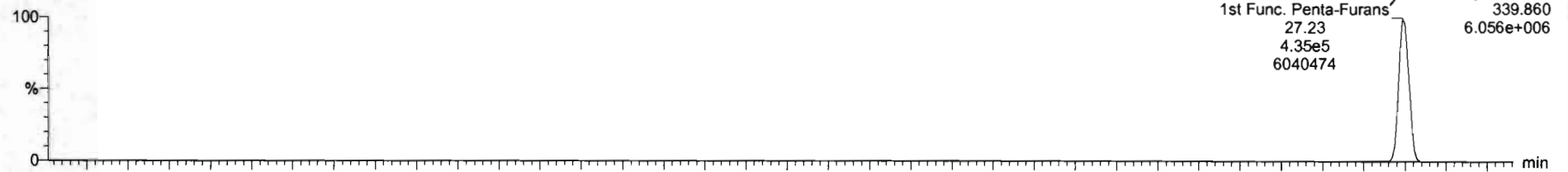
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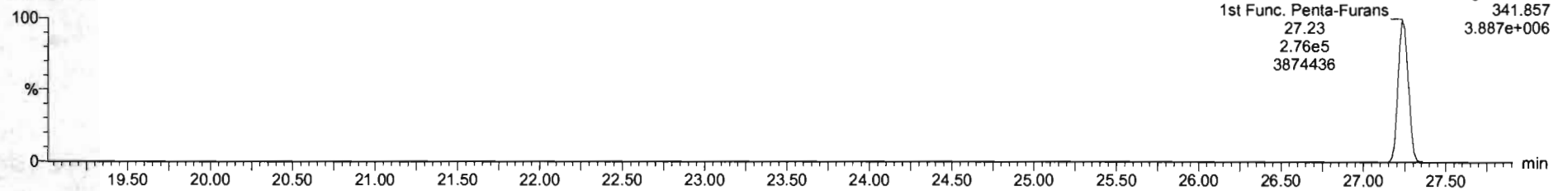
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1st Func. Penta-Furans

200318R2_6

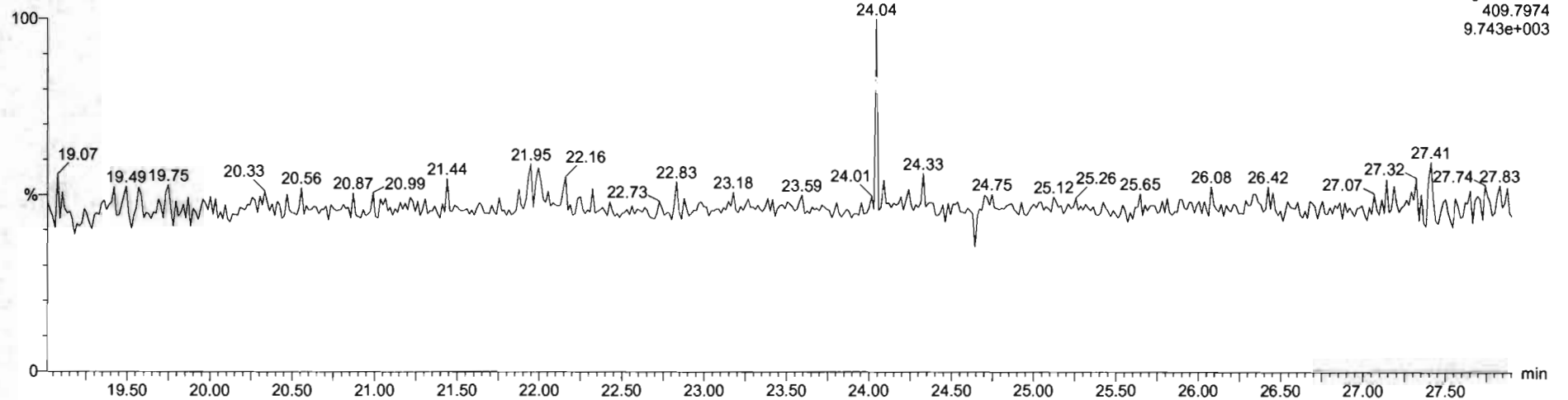


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DPE6

200318R2_6



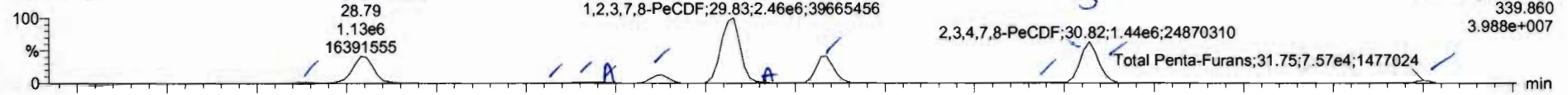
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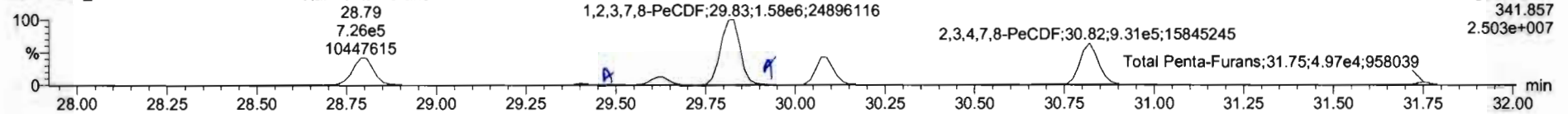
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1,2,3,7,8-PeCDF

200318R2_6

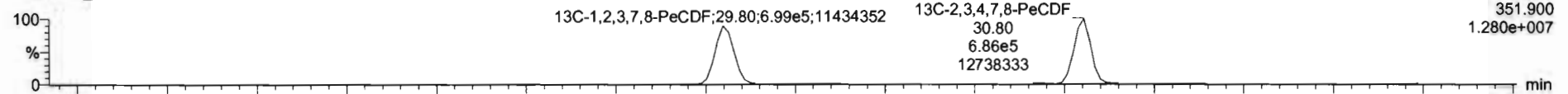


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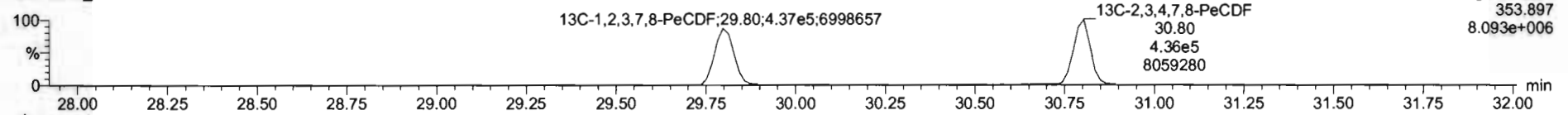


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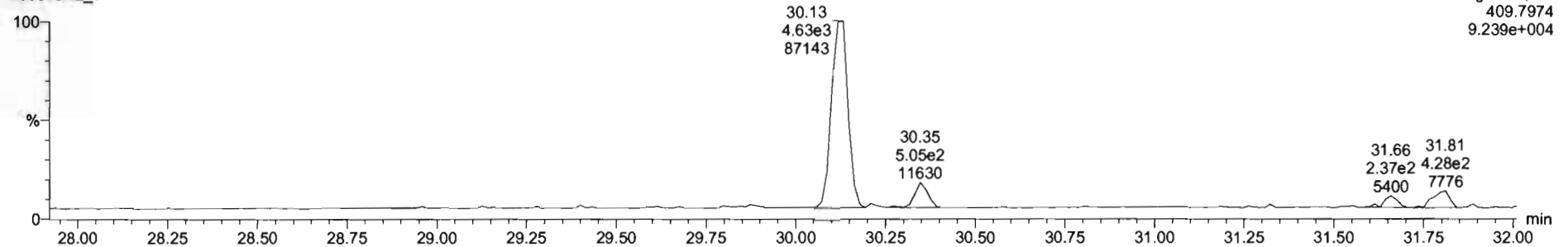


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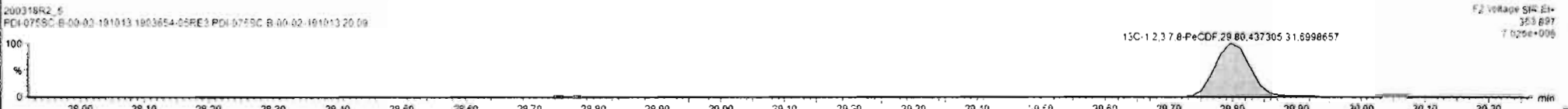
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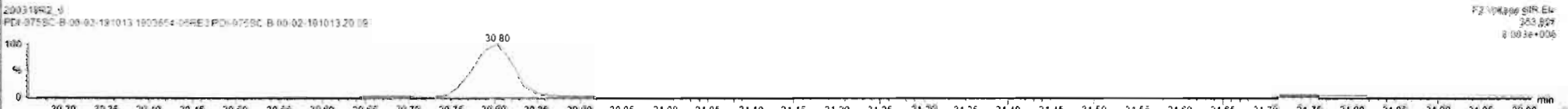
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45 Total Penta-Furans				0.9584	10.003			194c	0.319	1970	
46 Total Hexa-Furans				1.0920	10.003			2160	0.334	2160	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.64	4.049e4	2.632e4	1.54	NO	12.332	12.332
2 Total Penta-Furans	28.79	1.128e6	7.258e5	1.55	NO	342.23	342.23
3 Total Penta-Furans	29.32	3.893e3	2.505e2	1.47	NO	1.1442	1.1442
4 Total Penta-Furans	29.40	5.541e4	3.565e4	1.55	NO	16.810	0.00000
5 Total Penta-Furans	29.45	2.249e4	1.387e4	1.62	NO	6.7112	0.00000
6 Total Penta-Furans	29.53	2.876e5	1.641e5	1.56	NO	87.075	87.075
7 1,2,3,7,8-PeCDF	29.83	2.484e6	1.590e6	1.56	NO	747.36	747.36
8 Total Penta-Furans	29.90	2.489e4	1.437e4	1.73	NO	7.2471	7.2471
9 Total Penta-Furans	30.09	5.626e5	5.226e5	1.55	NO	292.61	292.61
10 Total Penta-Furans	30.35	6.521e2	6.385e2	1.33	NO	0.27516	0.27516
11 Total Penta-Furans	30.58	3.884e3	2.440e2	1.51	NO	1.1306	1.1306
12 Total Penta-Furans	30.70	1.803e4	1.131e4	1.59	NO	5.4167	5.4167
13 2,3,4,7,8-PeCDF	30.82	1.443e6	9.366e5	1.55	NO	421.58	421.58
14 Total Penta-Furans	31.09	2.035e3	1.237e3	1.65	NO	0.60407	0.60407
15 Total Penta-Furans	31.75	7.567e4	4.972e4	1.52	NO	23.147	23.147
16 Total Penta-Furans	31.87	2.667e3	8.595e2	3.13	YES	0.40457	0.00000



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.003			1950	0.319	1970	
46 Total Hexa-Furans				1.0920	10.003			2160	0.334	2160	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.64	4.049e4	2.632e4	1.54	NO	12.332	12.332
2 Total Penta-Furans	28.79	1.128e6	7.258e5	1.55	NO	342.23	742.23
3 Total Penta-Furans	29.32	3.893e3	2.505e3	1.47	NO	1.1442	1.1442
4 Total Penta-Furans	29.40	5.541e4	3.585e4	1.55	NO	15.810	0.00000
5 Total Penta-Furans	29.45	2.249e4	1.367e4	1.62	NO	6.7112	0.00000
6 Total Penta-Furans	29.63	2.876e5	1.641e5	1.56	NO	87.075	87.075
7 1,2,3,7,8-PeCDF	29.83	2.484e6	1.590e6	1.56	NO	747.36	747.36
8 Total Penta-Furans	29.90	2.489e4	1.437e4	1.73	NO	7.2471	7.2471
9 Total Penta-Furans	30.09	5.626e5	6.226e5	1.55	NO	292.61	292.61
10 Total Penta-Furans	30.70	2.238e4	1.394e4	1.61	NO	6.7039	6.7039
11 2,3,4,7,8-PeCDF	30.82	1.263e6	8.197e5	1.54	NO	369.97	369.97
12 Total Penta-Furans	30.85	2.017e5	1.271e5	1.59	NO	60.711	60.711
13 Total Penta-Furans	31.75	7.567e4	4.972e4	1.52	NO	23.147	23.147



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.003			195G		0.319	1970
46 Total Hexa-Furans				1.0920	10.003			216G		0.324	2160

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.64	4.049e4	2.632e4	1.54	NO	12.332	12.332
2 Total Penta-Furans	28.79	1.128e6	7.258e5	1.55	NO	342.22	342.22
3 Total Penta-Furans	29.32	3.893e3	2.505e3	1.47	NO	1.1442	1.1442
4 Total Penta-Furans	29.45	5.541e4	3.585e4	1.55	NO	16.810	0.00000
5 Total Penta-Furans	29.45	2.249e4	1.387e4	1.62	NO	8.7112	0.00000
6 Total Penta-Furans	29.63	2.876e5	1.641e5	1.58	NO	87.075	87.075
7 1,2,3,7,8-PeCDF	29.83	2.484e6	1.590e6	1.56	NO	747.38	747.38
8 Total Penta-Furans	29.90	2.489e4	1.437e4	1.73	NO	7.2471	7.2471
9 Total Penta-Furans	30.09	9.626e5	8.226e5	1.55	NO	252.51	252.61
10 Total Penta-Furans	30.70	2.238e4	1.394e4	1.61	NO	6.7039	6.7039
11 2,3,4,7,8-PeCDF	30.82	1.263e6	8.197e5	1.54	NO	369.97	369.97
12 Total Penta-Furans	30.85	2.017e5	1.271e5	1.59	NO	60.711	60.711
13 Total Penta-Furans	31.75	7.567e4	4.972e4	1.52	NO	23.147	23.147



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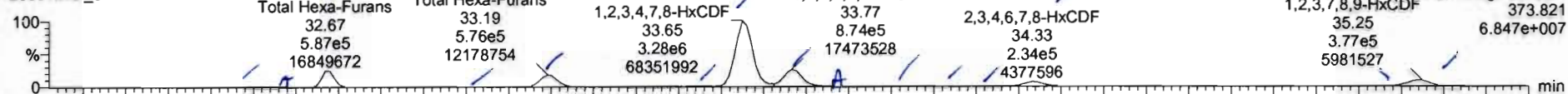
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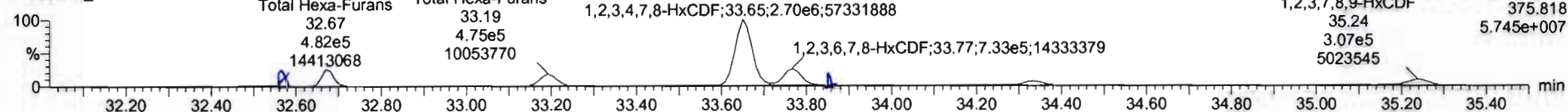
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1,2,3,4,7,8-HxCDF

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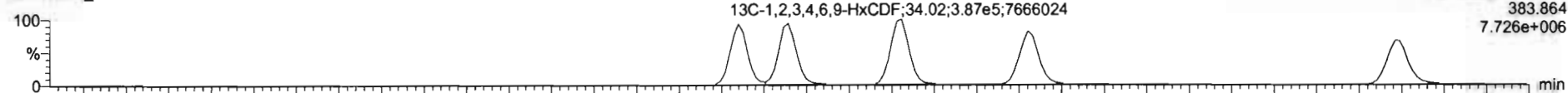


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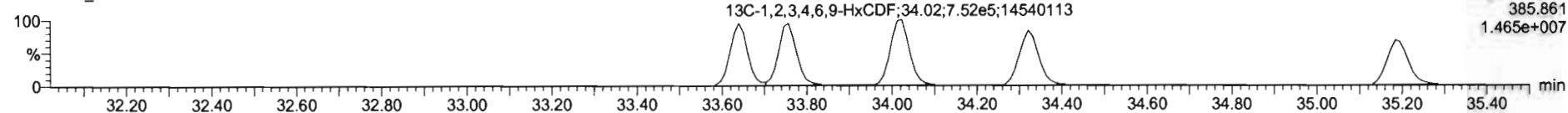


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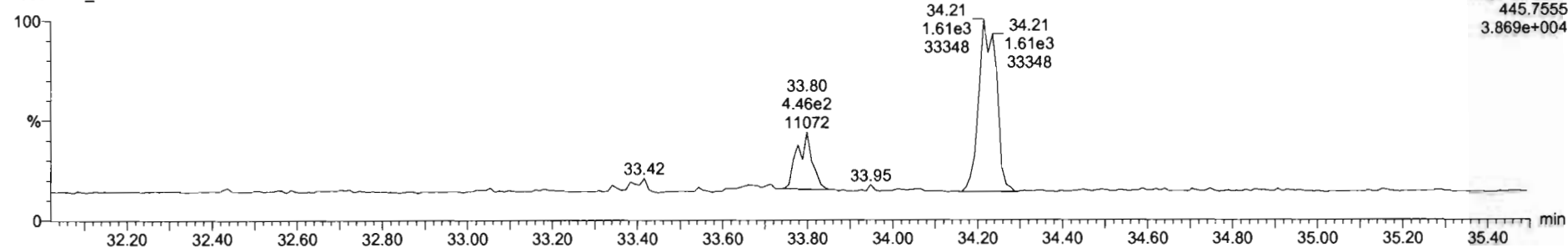


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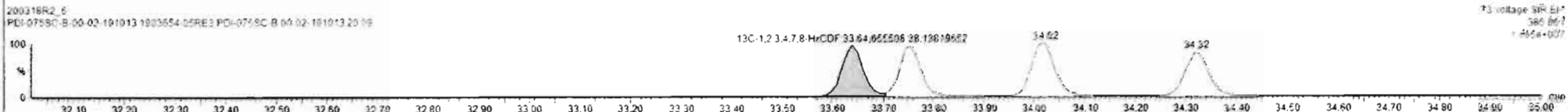
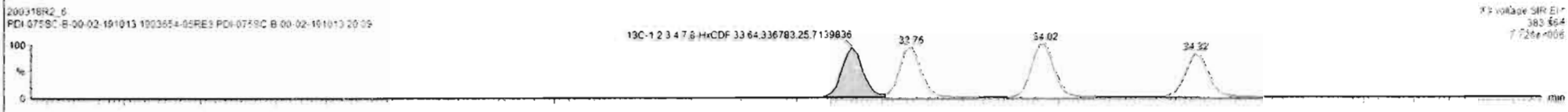
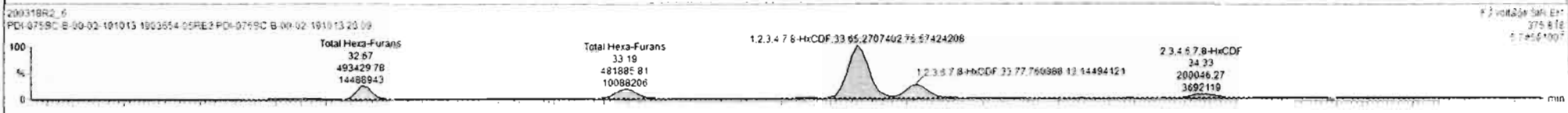
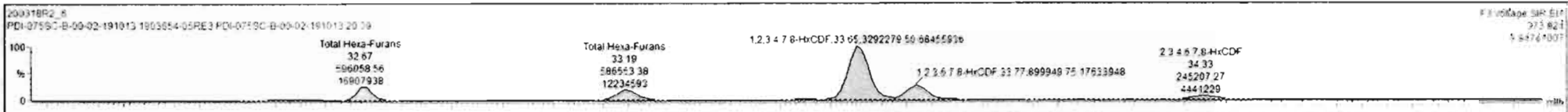
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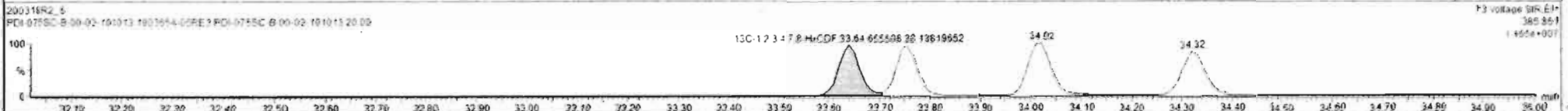
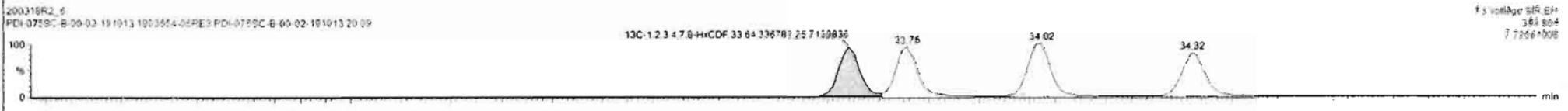
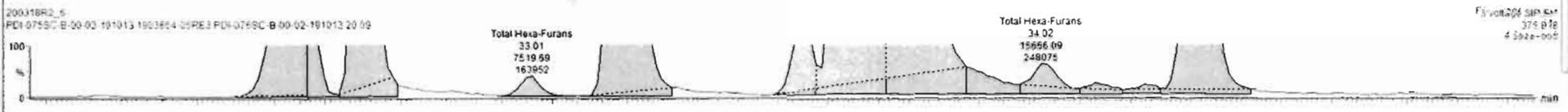
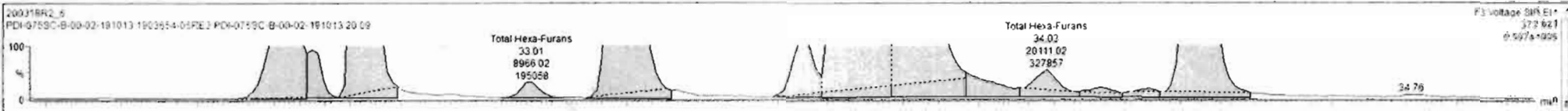
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.003			1554		0.319	1970
46 Total Hexa-Furans				1.0920	10.003			2200		0.334	2200

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.52	7.901e4	6.521e4	1.21	NO	27.340	27.340
2 Total Hexa-Furans	32.57	1.853e4	1.574e4	1.18	NO	8.4969	8.4969
3 Total Hexa-Furans	32.67	5.961e5	4.934e5	1.21	NO	208.55	208.55
4 Total Hexa-Furans	33.01	8.966e3	7.520e3	1.19	NO	3.1255	3.1255
5 Total Hexa-Furans	33.19	5.866e5	4.819e5	1.22	NO	202.56	202.56
6 Total Hexa-Furans	33.55	3.625e4	2.804e4	1.29	NO	12.187	12.187
7 1,2,3,4,7,8-HxCDF	33.65	3.292e6	2.707e6	1.22	NO	1164.5	1164.5
8 1,2,3,6,7,8-HxCDF	33.77	8.999e5	7.609e5	1.18	NO	322.62	322.62
9 Total Hexa-Furans	33.87	1.901e4	1.434e4	1.32	NO	6.3226	6.3226
10 Total Hexa-Furans	34.03	2.011e4	1.567e4	1.26	NO	6.7829	6.7829
11 Total Hexa-Furans	34.14	7.540e3	5.682e3	1.33	NO	2.5068	2.5068
12 Total Hexa-Furans	34.24	5.996e3	3.954e3	1.52	ES	1.6794	0.00000
13 2,3,4,6,7,8-HxCDF	34.33	2.452e6	2.000e6	1.23	NO	83.853	83.853
14 1,2,3,7,8,9-HxCDF	35.25	3.769e5	3.071e5	1.23	NO	150.99	150.99



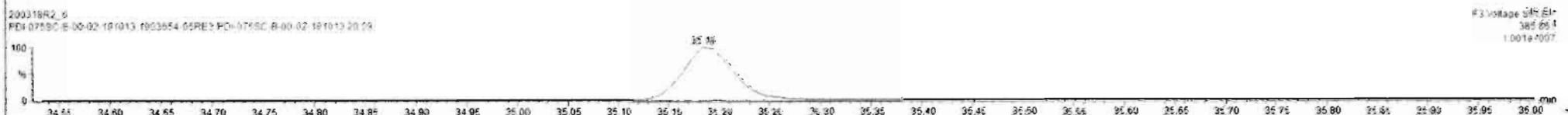
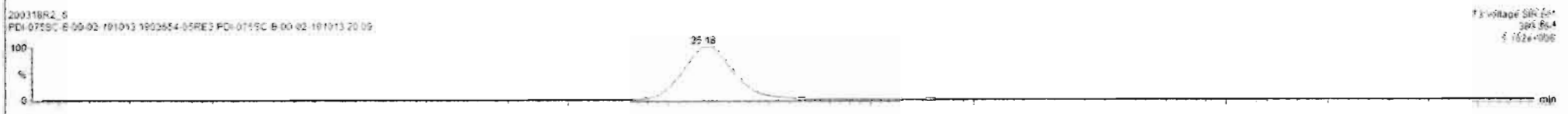
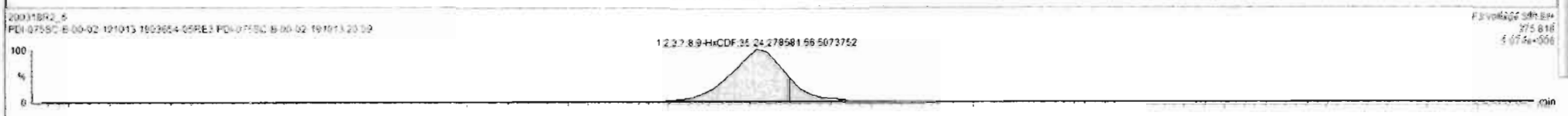
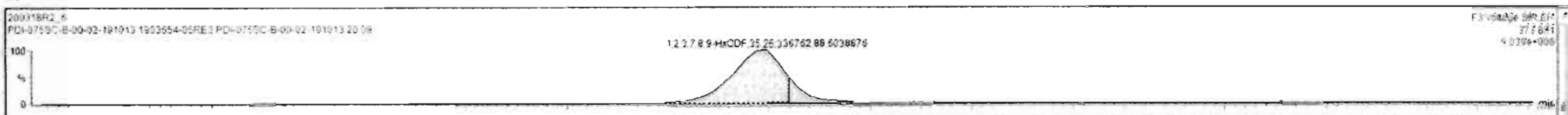
Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.003			1590		0.318	1670
46 Total Hexa-Furans				1.0920	10.003			2200		0.334	2290

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.52	7.901e4	6.521e4	1.21	NO	27.340	27.340
2 Total Hexa-Furans	32.57	1.853e4	1.574e4	1.18	NO	6.4906	6.4969
3 Total Hexa-Furans	32.67	5.961e5	4.934e5	1.21	NO	206.55	206.55
4 Total Hexa-Furans	33.01	8.966e3	7.520e3	1.19	NO	3.1255	3.1255
5 Total Hexa-Furans	33.19	5.896e5	4.819e5	1.22	NO	202.56	202.56
6 Total Hexa-Furans	33.55	3.825e4	2.804e4	1.29	NO	12.187	12.187
7 1,2,3,4,7,8-HxCDF	33.65	3.292e8	2.707e8	1.22	NO	1164.5	1164.5
8 1,2,3,6,7,8-HxCDF	33.77	8.999e5	7.609e5	1.18	NO	322.62	322.62
9 Total Hexa-Furans	33.87	1.901e4	1.434e4	1.32	NO	6.3226	6.3226
10 Total Hexa-Furans	34.03	2.011e4	1.567e4	1.28	NO	6.7829	6.7829
11 Total Hexa-Furans	34.14	7.540e3	5.683e3	1.33	NO	2.5088	2.5088
12 Total Hexa-Furans	34.24	5.996e3	3.954e3	1.52	YES	1.6794	0.00000
13 2,3,4,6,7,8-HxCDF	34.33	2.452e5	2.000e5	1.23	NO	83.853	83.853
14 1,2,3,7,8,9-HxCDF	35.25	3.789e5	3.071e5	1.23	NO	150.99	150.99



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.003			2180		0.334	2200
47 Total Hepta-Furans				1.0481	10.002			1910		0.572	1910

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.52	7.901e4	6.521e4	1.21	NO	27.340	27.340
2 Total Hexa-Furans	32.57	1.855e4	1.574e4	1.18	NO	6.4969	6.4969
3 Total Hexa-Furans	32.67	5.961e5	4.934e5	1.21	NO	206.55	206.55
4 Total Hexa-Furans	33.04	8.966e3	7.520e3	1.19	NO	3.1255	3.1255
5 Total Hexa-Furans	33.19	5.896e5	4.819e5	1.22	NO	202.56	202.56
6 Total Hexa-Furans	33.55	3.625e4	2.864e4	1.29	NO	12.187	12.187
7 1,2,3,4,7,8-HxCDF	33.65	3.292e0	2.707e0	1.22	NO	1164.5	1164.5
8 1,2,3,6,7,8-HxCDF	33.77	8.999e5	7.609e5	1.18	NO	322.62	322.62
9 Total Hexa-Furans	33.87	1.901e4	1.434e4	1.33	NO	6.3226	6.3226
10 Total Hexa-Furans	34.03	2.011e4	1.567e4	1.28	NO	6.7525	6.7525
11 Total Hexa-Furans	34.14	7.546e3	5.663e3	1.33	NO	2.5068	2.5068
12 Total Hexa-Furans	34.24	5.996e3	3.954e3	1.52	ES	1.4794	0.00000
13 2,3,4,6,7,8-HxCDF	34.33	2.452e5	2.090e5	1.23	NO	81.863	81.863
14 1,2,3,7,8-HxCDF	35.25	3.368e5	2.786e5	1.21	NO	135.85	135.85
15 Total Hexa-Furans	35.27	4.868e4	2.732e4	1.30	NO	16.303	0.00000



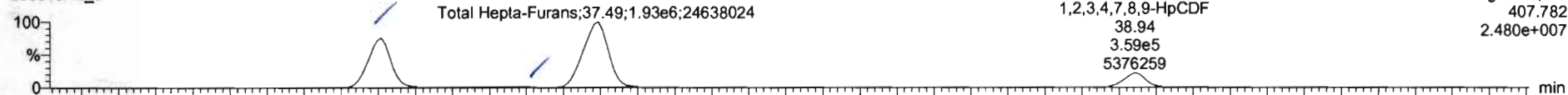
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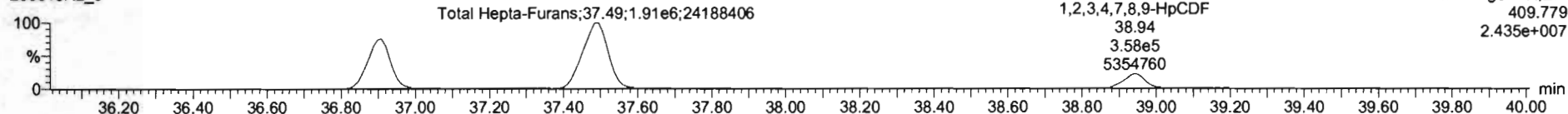
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200318R2_6

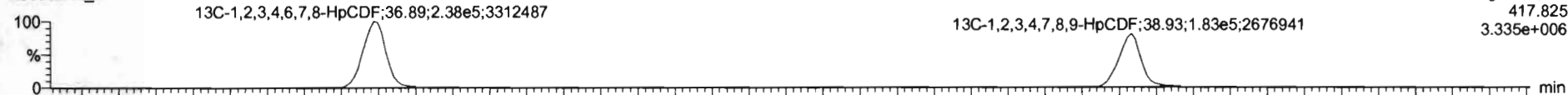


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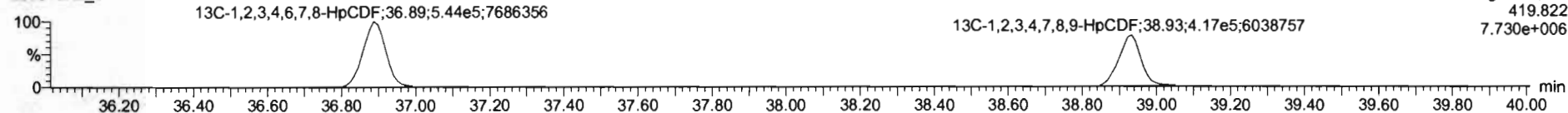


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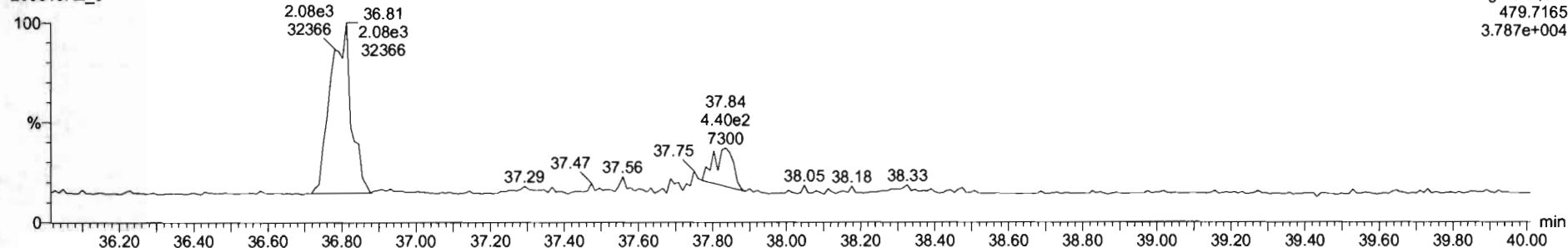


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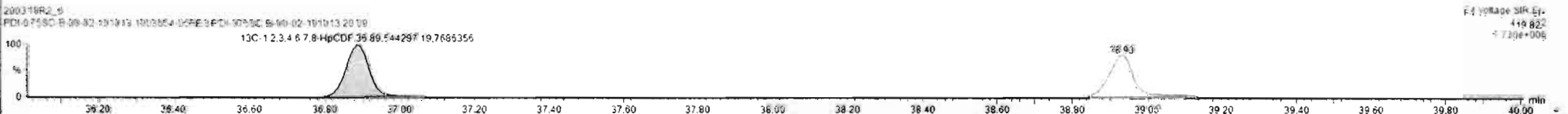
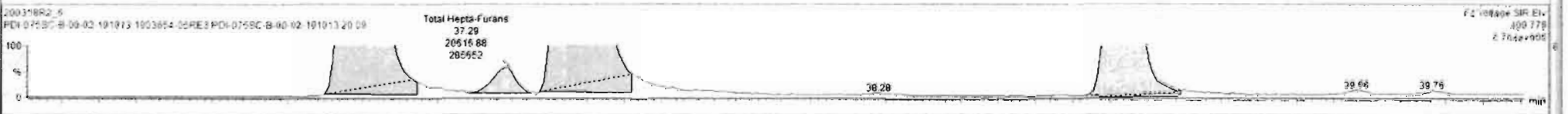
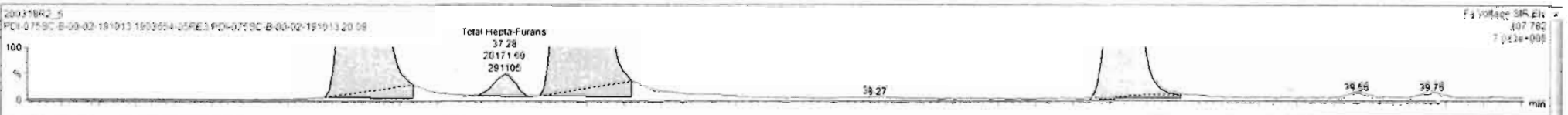
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200318R2_6



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.003			2160	0.334	2200	
47 Total Hepta-Furans				1.0483	10.003			1940	0.572	1940	

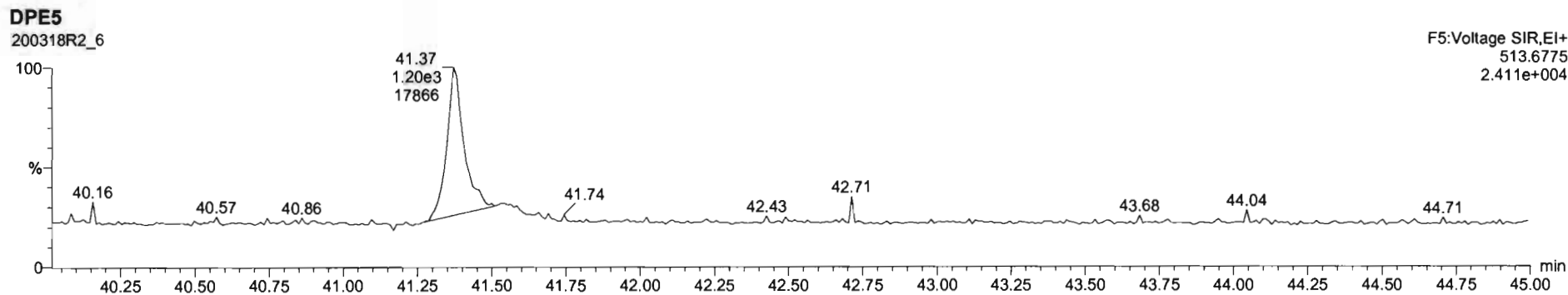
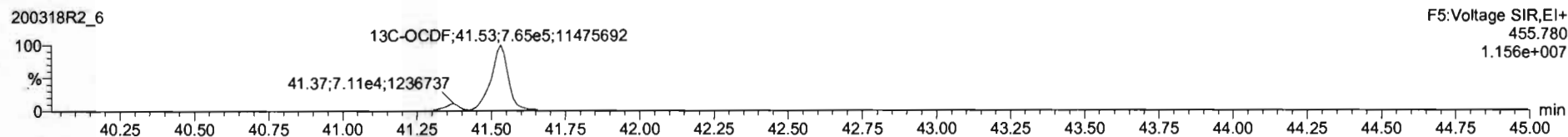
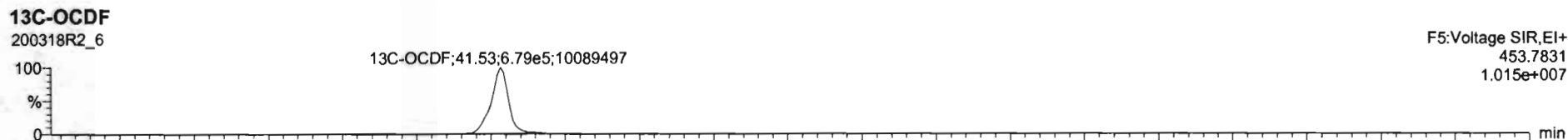
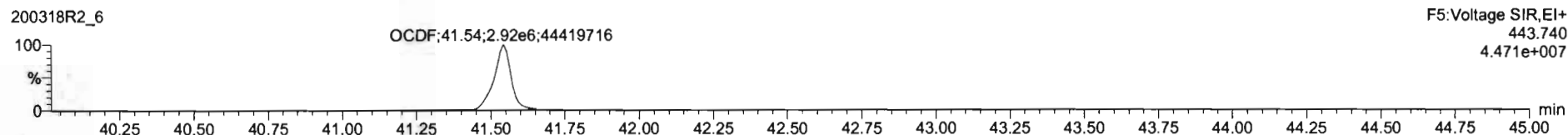
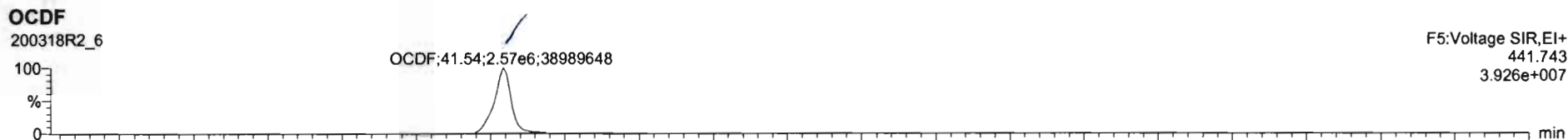
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.91	1.330e8	1.326e8	1.00	NO	647.25	647.25
2 Total Hepta-Furans	37.28	2.017e4	2.062e4	0.98	NO	11.257	11.257
3 Total Hepta-Furans	37.45	1.960e6	1.939e6	1.01	NO	1076.1	1076.1
4 1,2,3,4,6,7,8-HpCDF	38.94	3.661e5	3.649e5	1.00	NO	201.43	201.43



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Printed: Thursday, March 19, 2020 09:10:57 Pacific Daylight Time

Name: 200318R2_6, Date: 19-Mar-2020, Time: 07:29:56, ID: 1903654-05RE3 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

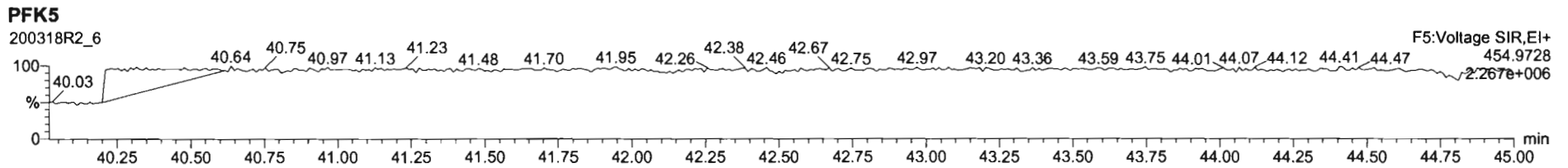
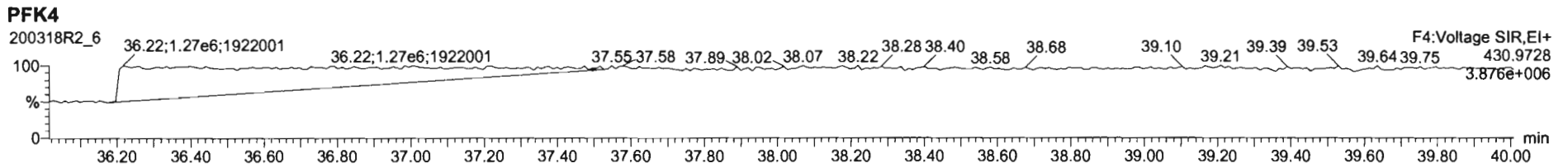
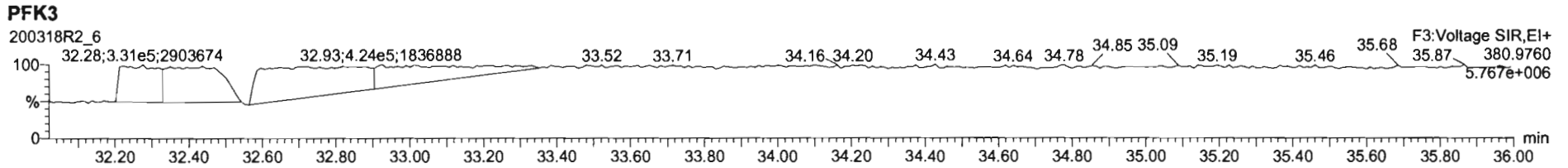
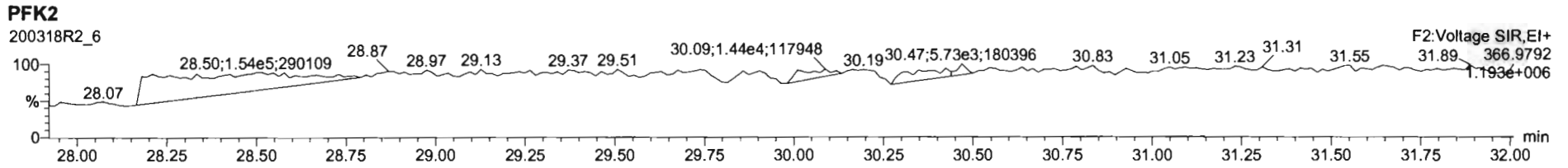
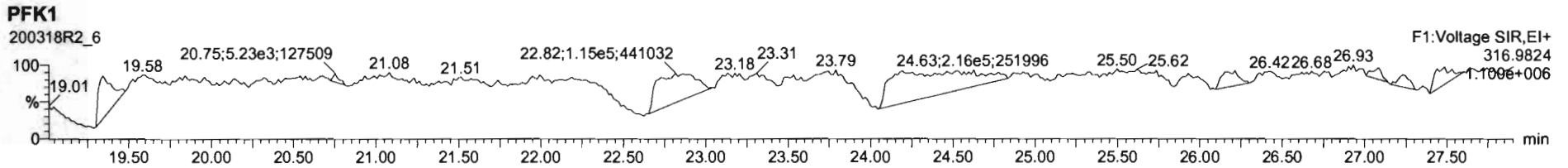


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GRS 03/20/2020

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C 03/23/2020

Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	2.65e6	0.89	NO	1.05	10.003	41.350	41.35	1.000	1.000	16641		7.11	16600
2	24 13C-OCDD	6.05e4	0.89	NO	0.571	10.003	41.471	41.35	1.219	1.216	259.07	64.8	1.50	
3	35 37Cl-2,3,7,8-TCDD	2.36e4			1.17	10.003	25.791	25.83	1.029	1.030	48.327	60.4	0.475	
4	36 13C-1,2,3,4-TCDD	8.32e4	0.82	NO	1.00	10.003	25.050	25.06	1.000	1.000	199.94	100	1.22	
5	37 13C-1,2,3,4-TCDF	1.48e5	0.80	NO	1.00	10.003	23.190	23.15	1.000	1.000	199.94	100	2.18	
6	38 13C-1,2,3,4,6,9-HxCDF	8.17e4	0.49	NO	1.00	10.003	33.880	34.01	1.000	1.000	199.94	100	1.34	

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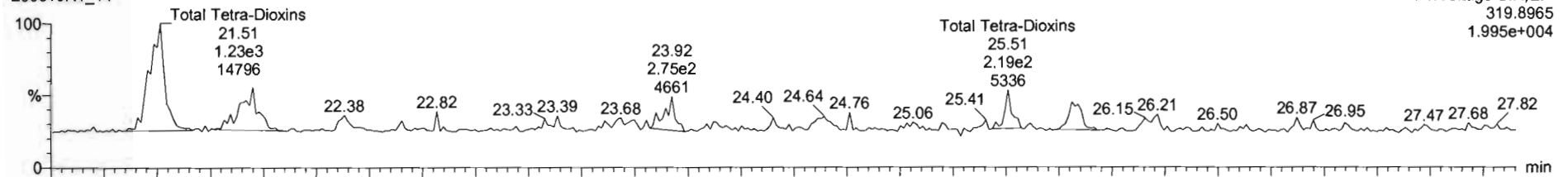
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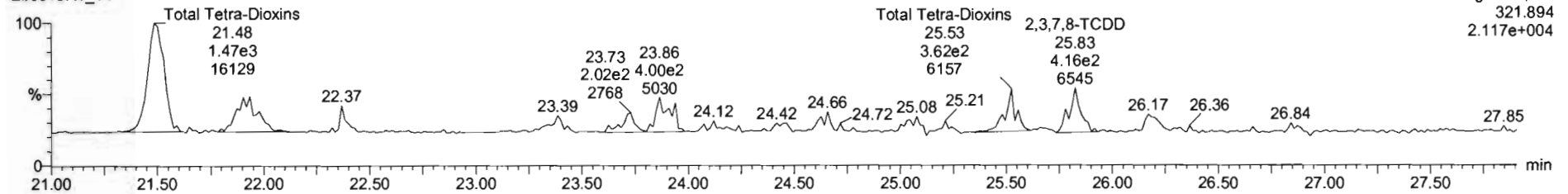
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2,3,7,8-TCDD

200319R1_14

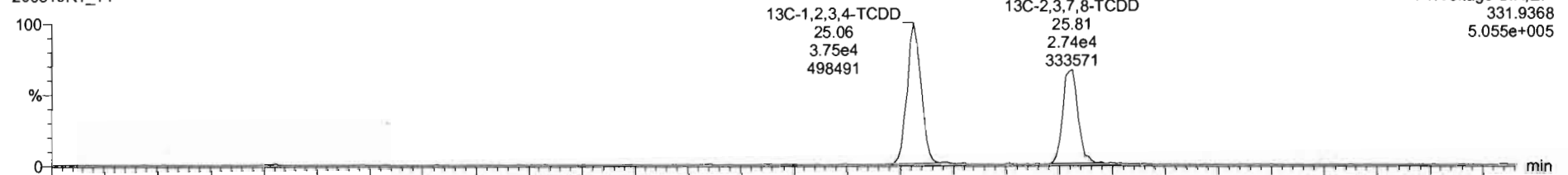


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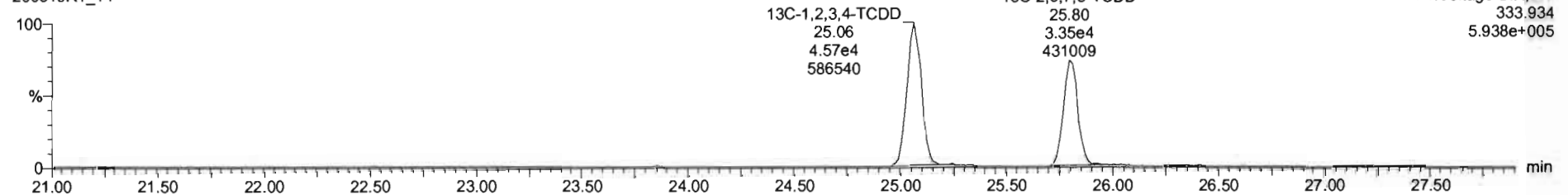


13C-2,3,7,8-TCDD

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200319R1_14



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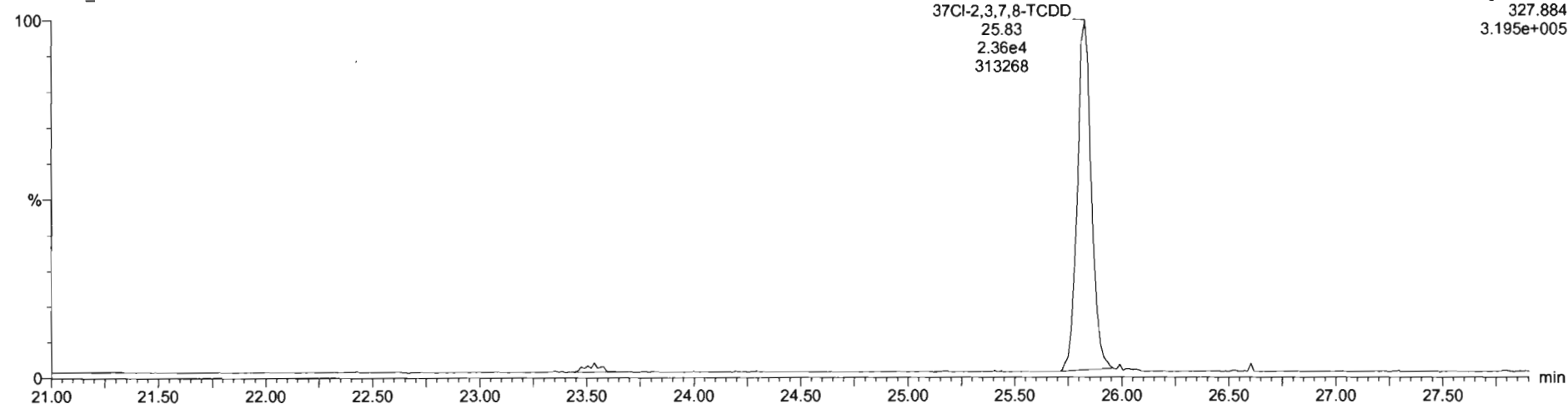
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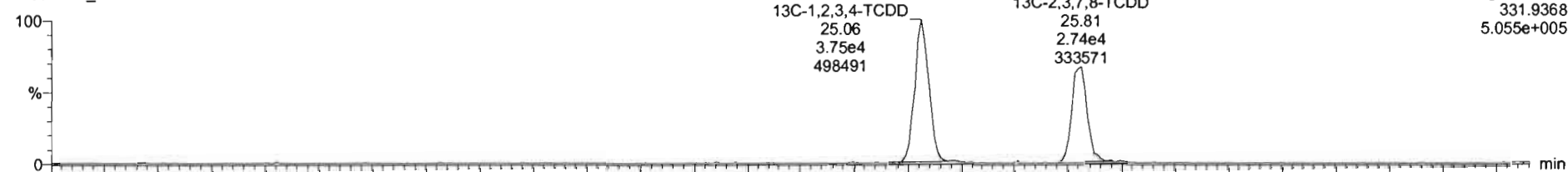
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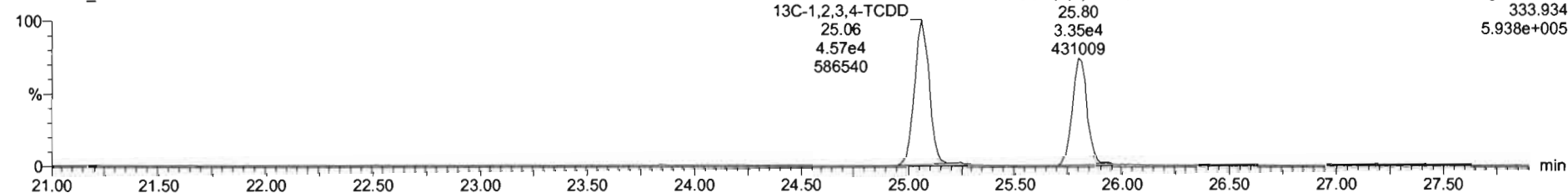


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200319R1_14



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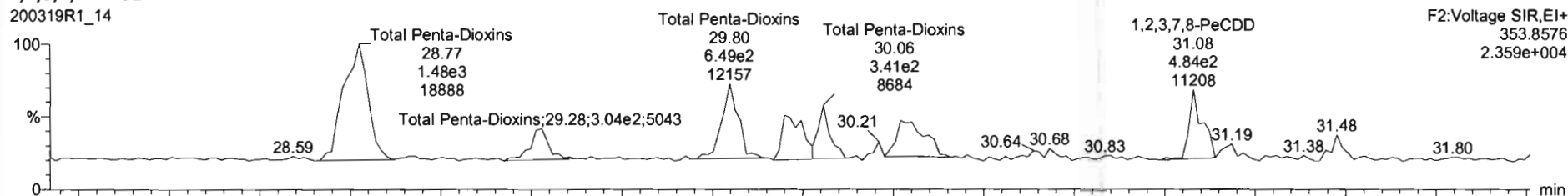
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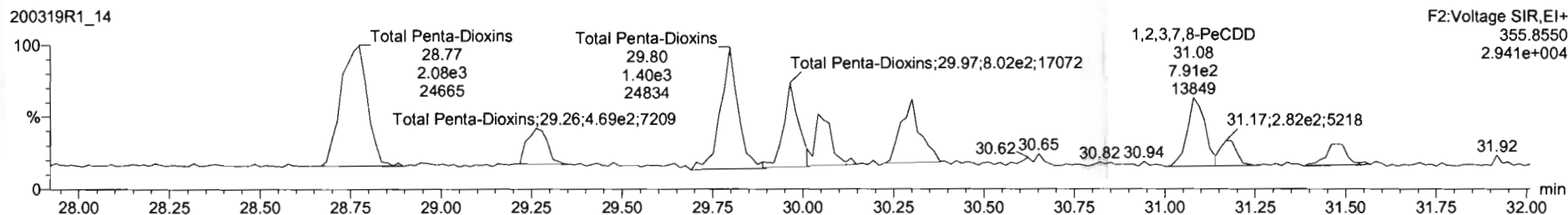
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1,2,3,7,8-PeCDD

200319R1_14

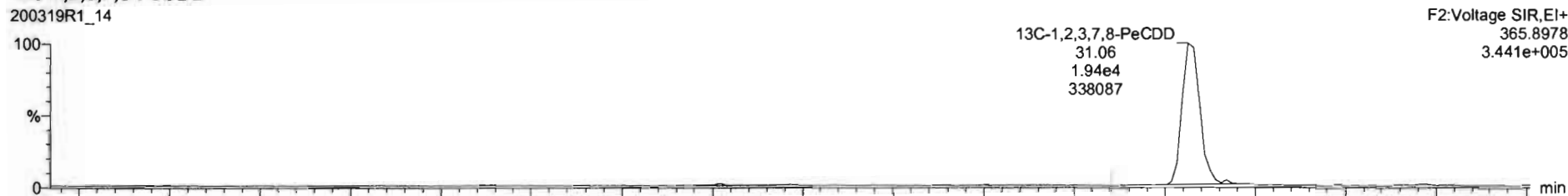


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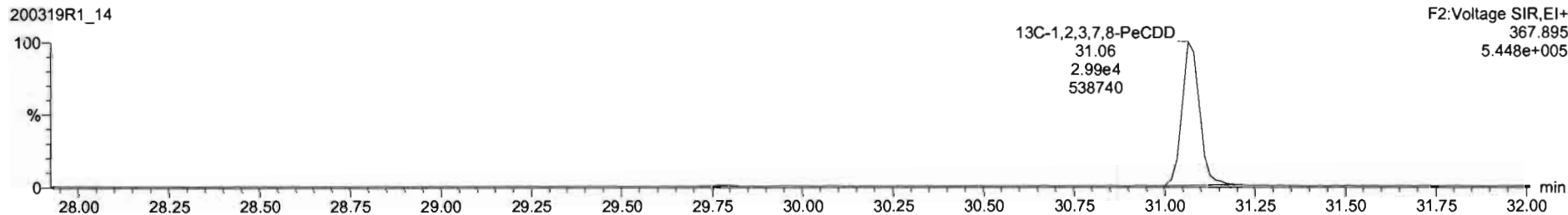


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200319R1_14



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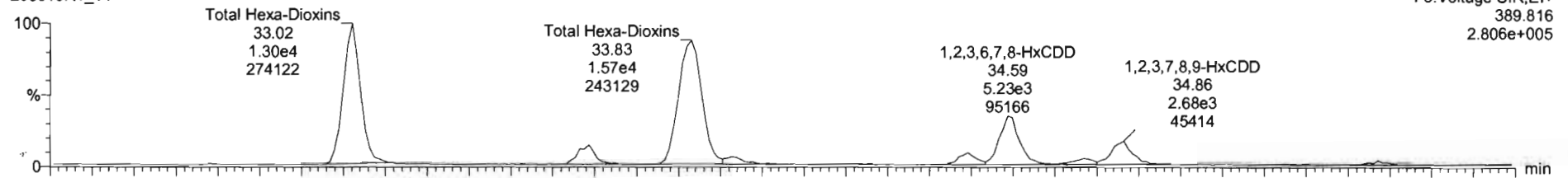
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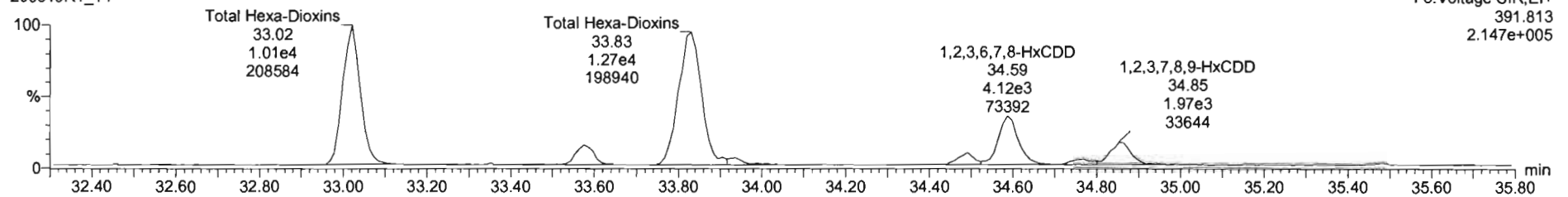
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1,2,3,4,7,8-HxCDD

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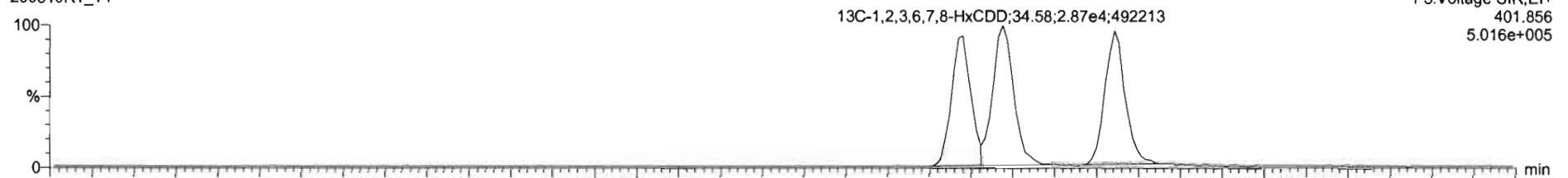


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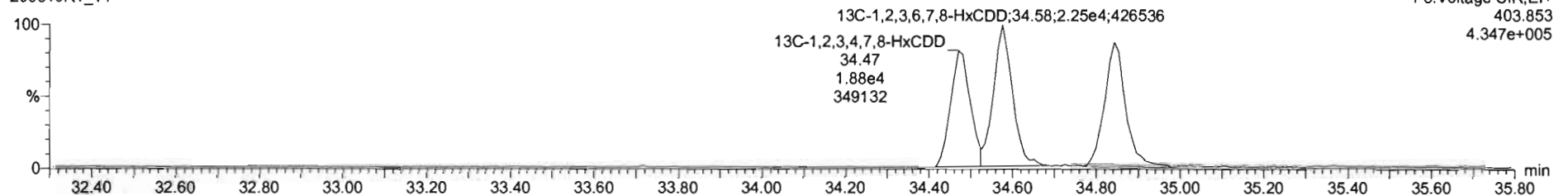


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200319R1_14



200319R1_14



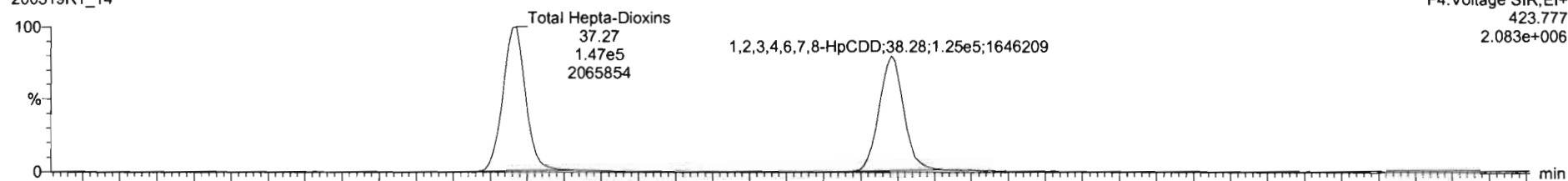
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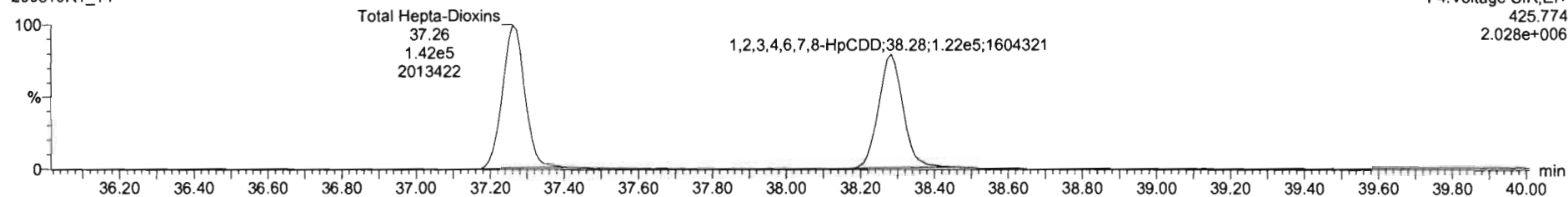
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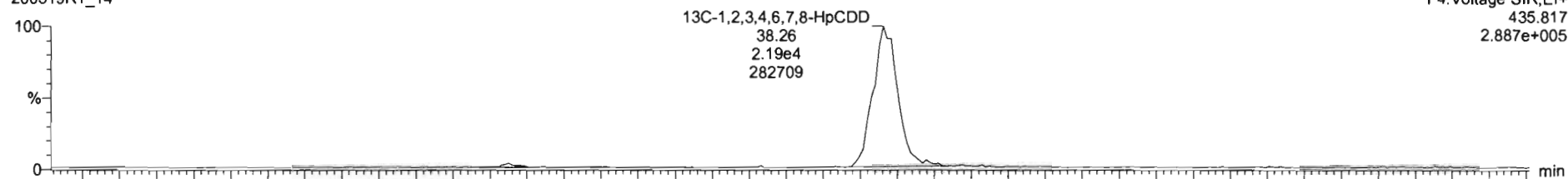


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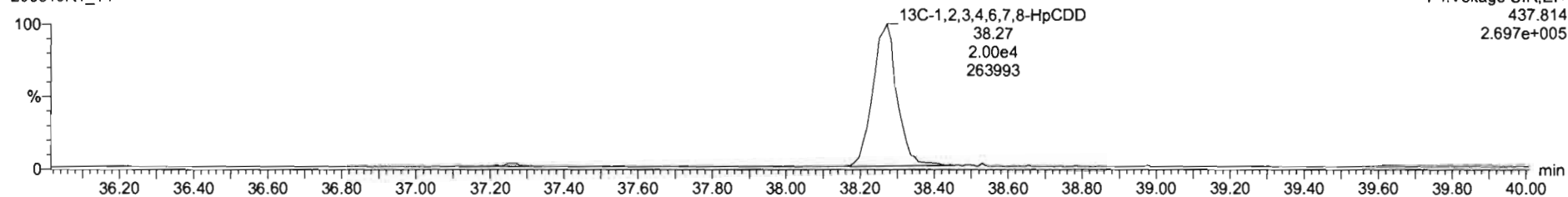


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200319R1_14



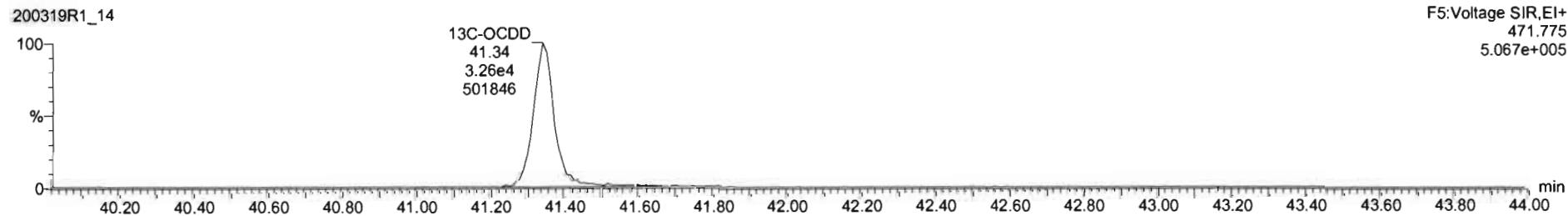
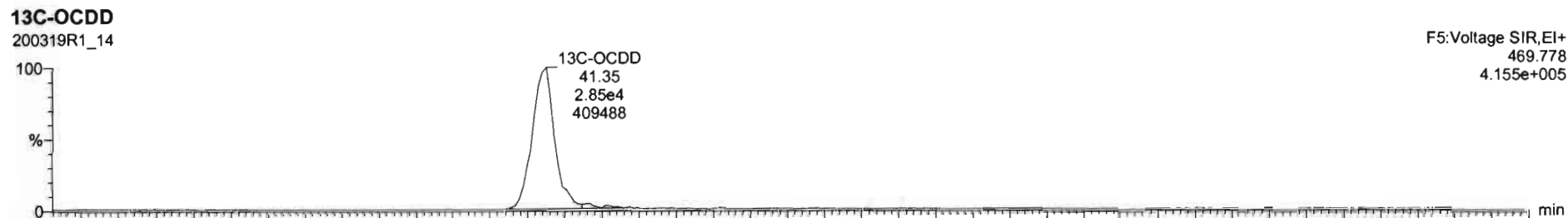
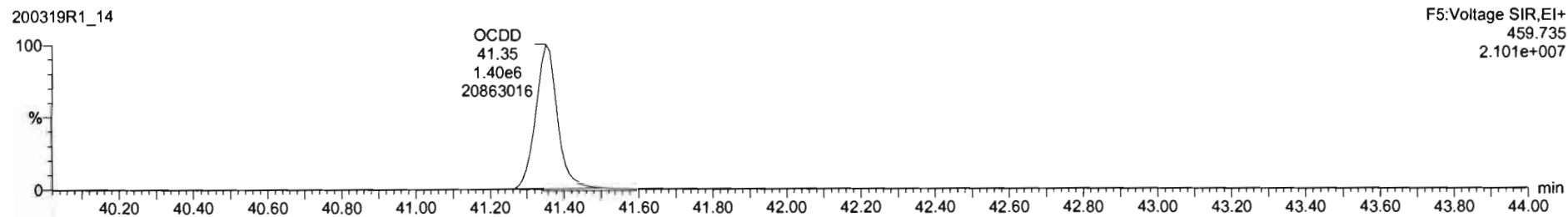
200319R1_14



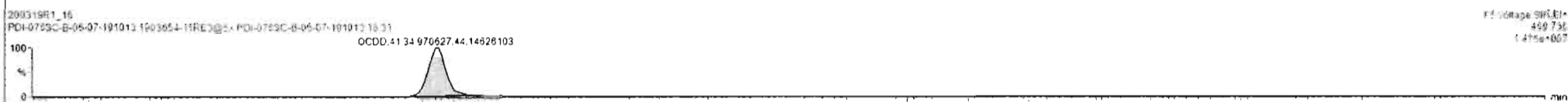
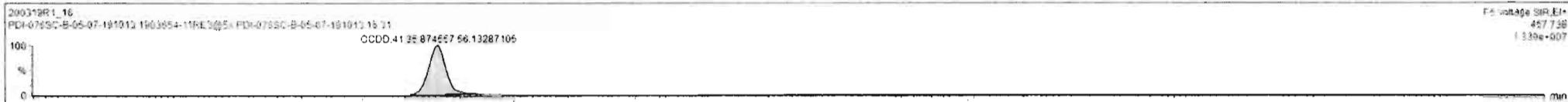
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013



PK	Name	Resp	RA	nBy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	7.76e2	0.88	NO	0.9835	10.004	25.80	1.001	3.04		1.31	3.04
2	1,2,3,7,8-PeCDD			NO	0.9212	10.004					1.39	
3	1,2,3,4,7,8-HxCDD	7.78e2	1.30	NO	1.1325	10.004	34.49	1.001	4.54		1.57	4.54
4	1,2,3,6,7,8-HxCDD	5.32e2	1.14	NO	0.9844	10.004	34.59	1.000	30.5		1.76	30.5
5	1,2,3,7,8,9-HxCDD	1.87e3	1.33	NO	0.9674	10.004	34.64	1.000	10.9		1.81	10.9
6	1,2,3,4,6,7,8-HpCDD	2.13e5	1.06	NO	1.0051	10.004	36.27	1.000	1430		7.13	1430
7	OCDD	1.85e6	0.90	NO	1.0515	10.004	41.35	1.000	13800		5.21	13800
8	2,3,7,8-TCDF	6.81e4	0.76	NO	0.9154	10.004	24.79	1.001	181		2.97	181
9	1,2,3,7,8-PeCDF	8.02e4	1.54	NO	0.9594	10.004	29.74	1.001	276		2.23	276
10	2,3,4,7,8-PeCDF	4.22e4	1.65	NO	1.0025	10.004	30.76	1.000	150		2.15	150
11	1,2,3,4,7,8-HxCDF	1.12e5	1.21	NO	1.0351	10.004	33.64	1.001	453		1.42	453
12	1,2,3,6,7,8-HxCDF	2.96e4	1.22	NO	1.0126	10.004	33.76	1.001	115		1.43	115
13	2,3,4,6,7,8-HxCDF	7.47e3	1.22	NO	1.0920	10.004	34.32	1.000	29.3		1.52	29.3
14	1,2,3,7,8,9-HxCDF	1.12e4	1.15	NO	1.0258	10.004	35.23	1.002	51.5		1.97	51.5
15	1,2,3,4,6,7,8-HpCDF	5.83e4	1.01	NO	1.0483	10.004	36.88	1.000	300		2.06	300
16	1,2,3,4,7,8,9-HpCDF	1.29e4	0.96	NO	1.2059	10.004	36.92	1.000	81.4		2.72	81.4
17	OCDF	1.38e5	0.67	NO	0.9488	10.004	41.53	1.001	878		1.91	878
18	13C-2,3,7,8-TCDD	5.19e4	0.79	NO	1.1842	10.004	25.77	1.029	142	71.1	4.26	
19	13C-1,2,3,7,8-PeCDD	3.66e4	0.66	NO	0.8644	10.004	31.06	1.240	137	68.7	1.45	
20	13C-1,2,3,4,7,8-HxCDD	3.02e4	1.30	NO	0.7528	10.004	34.47	1.014	133	66.4	1.56	
21	13C-1,2,3,6,7,8-HxCDD	3.54e4	1.23	NO	0.9254	10.004	34.58	1.017	127	63.4	1.27	

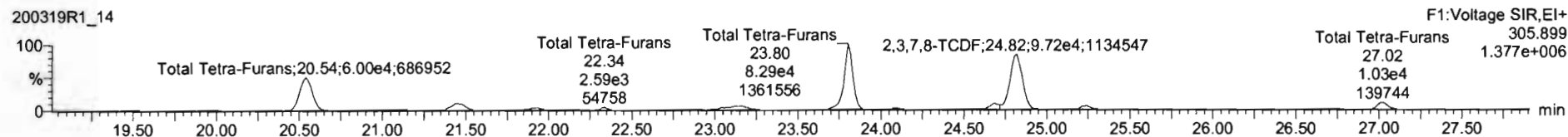
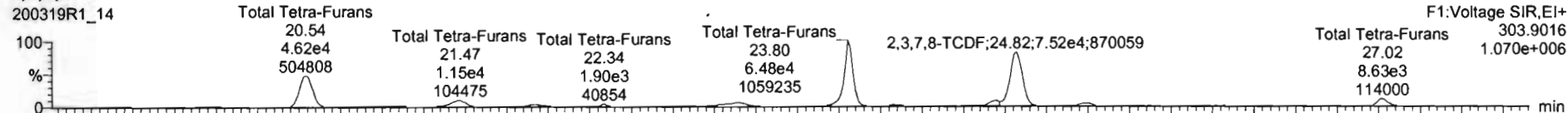


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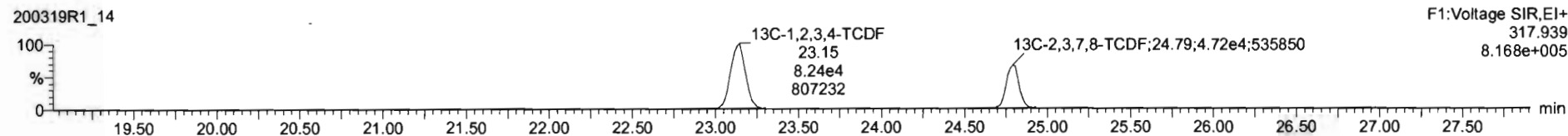
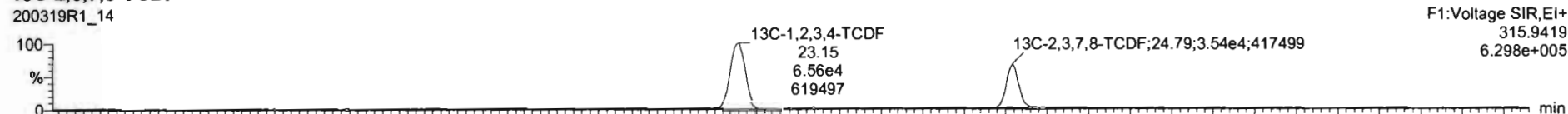
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

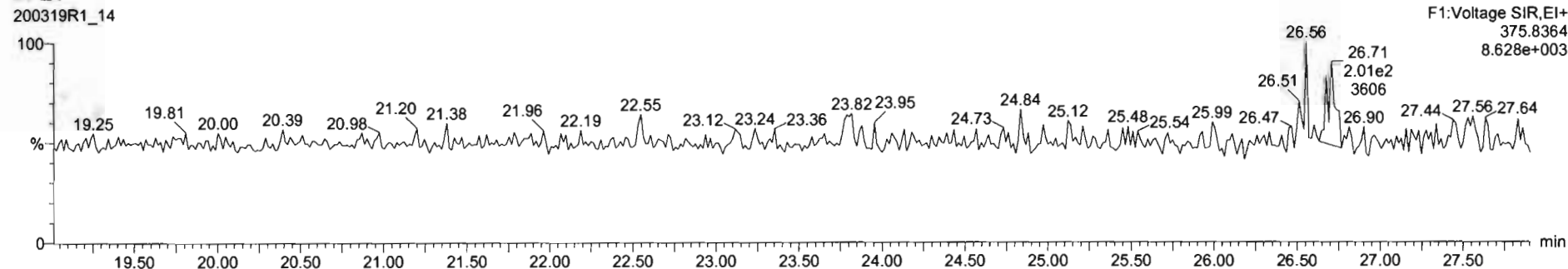
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

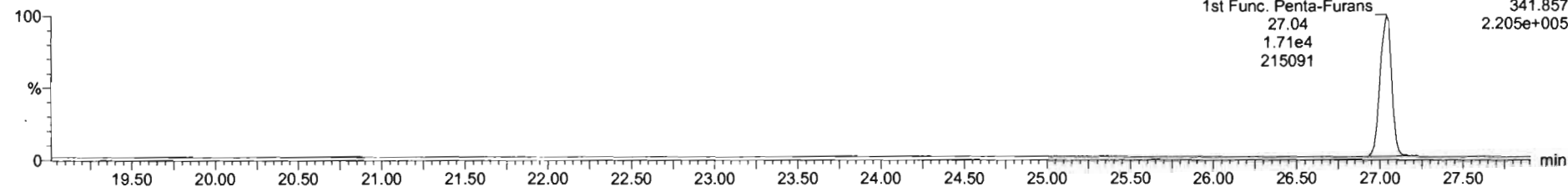
Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

1st Func. Penta-Furans

200319R1_14

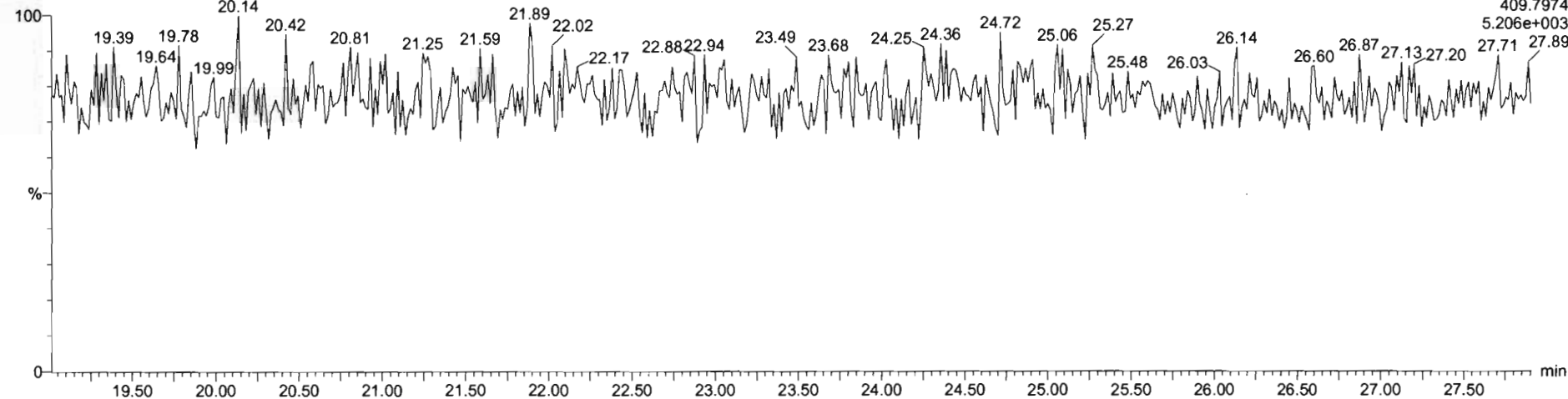


200319R1_14



DPE6

200319R1_14



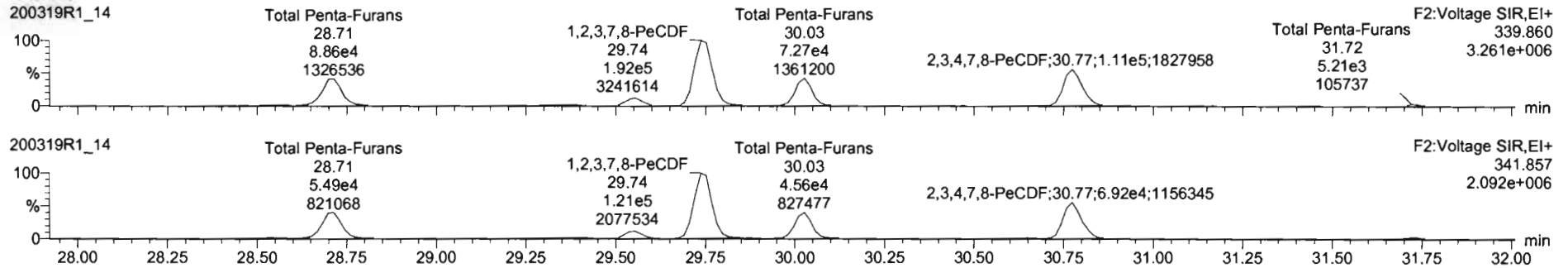
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

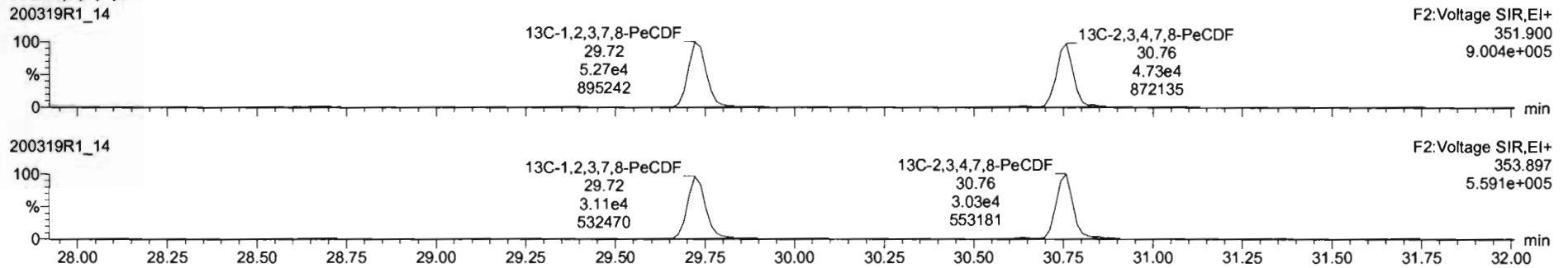
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Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

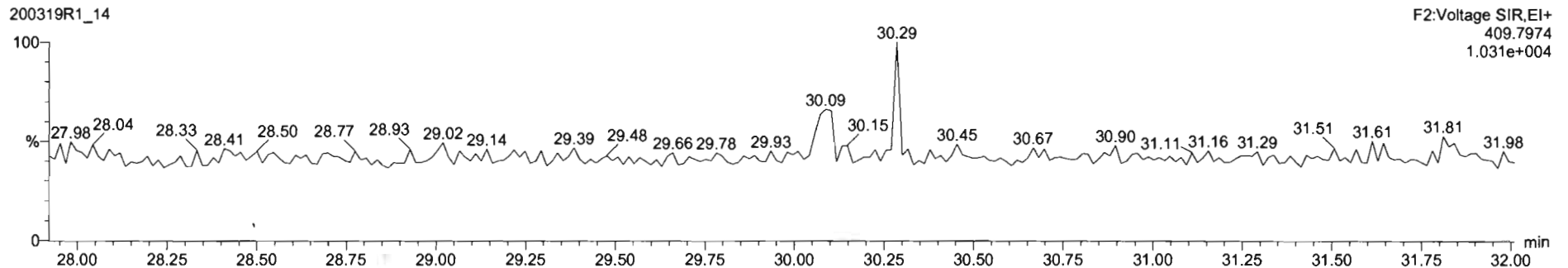
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



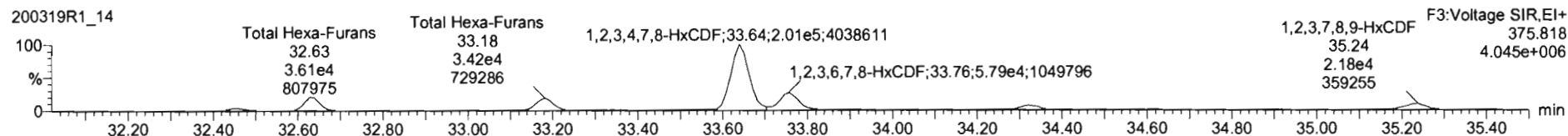
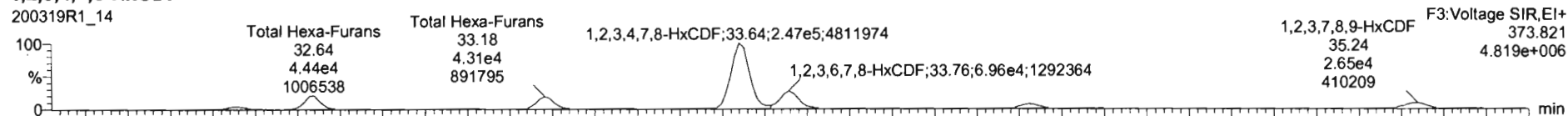
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

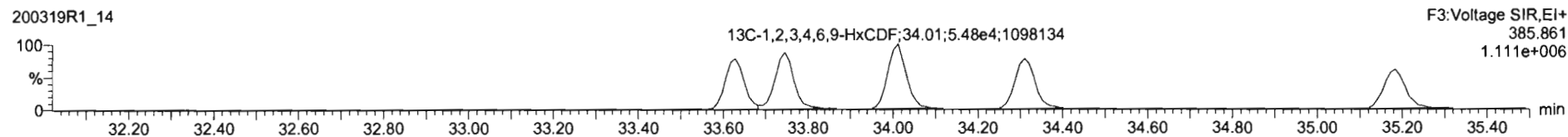
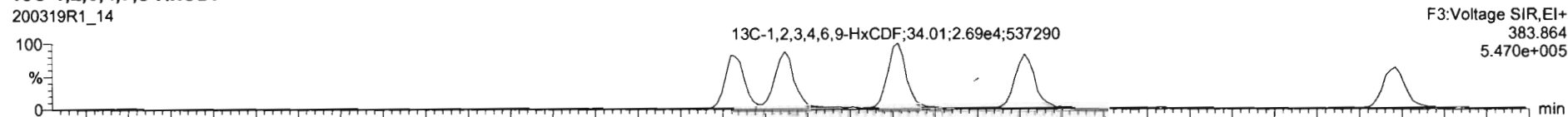
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Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

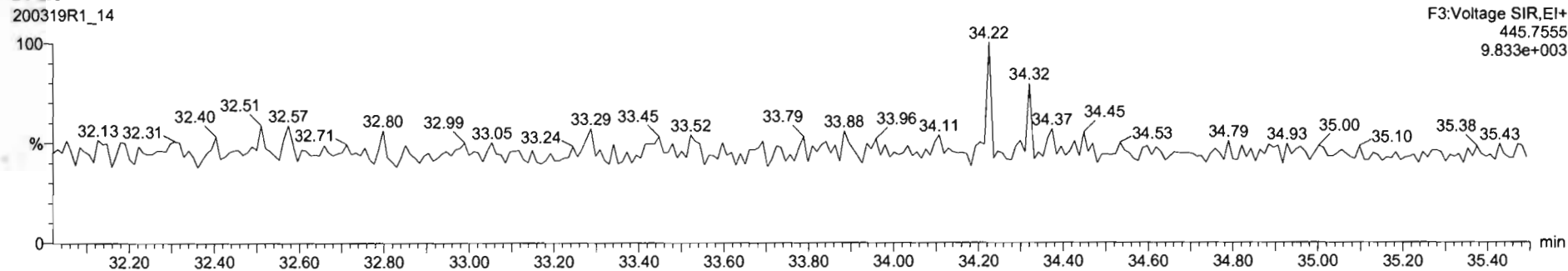
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



Dataset: Untitled

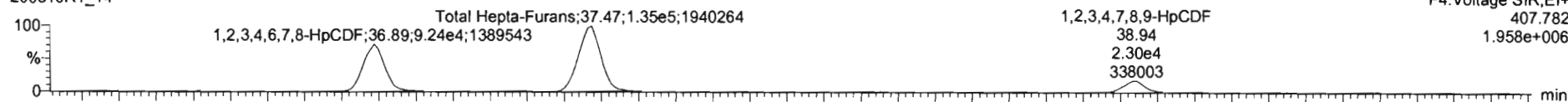
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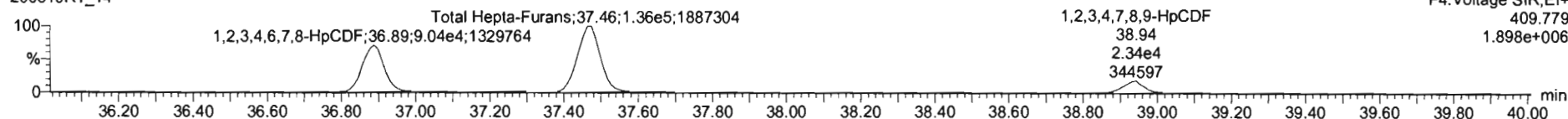
Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

1,2,3,4,6,7,8-HpCDF

200319R1_14



200319R1_14

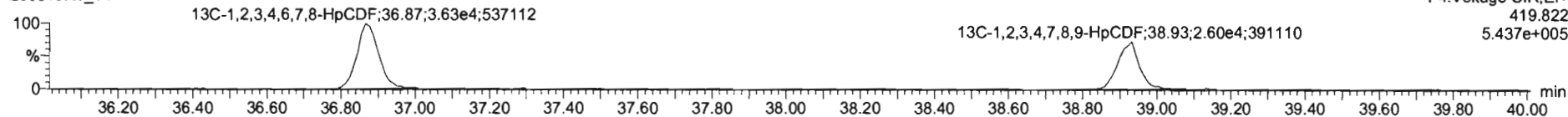


13C-1,2,3,4,6,7,8-HpCDF

200319R1_14

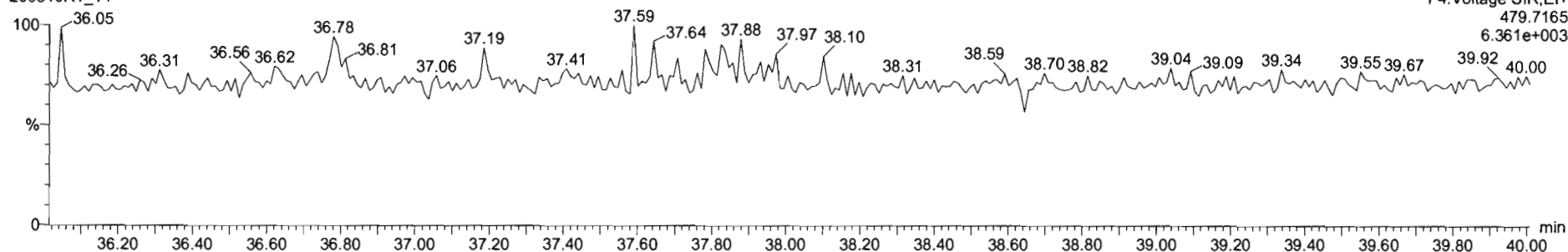


200319R1_14



DPE4

200319R1_14



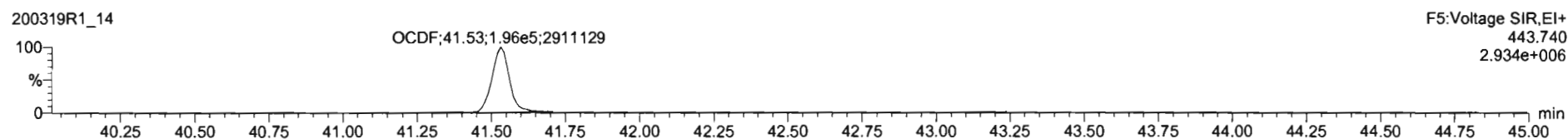
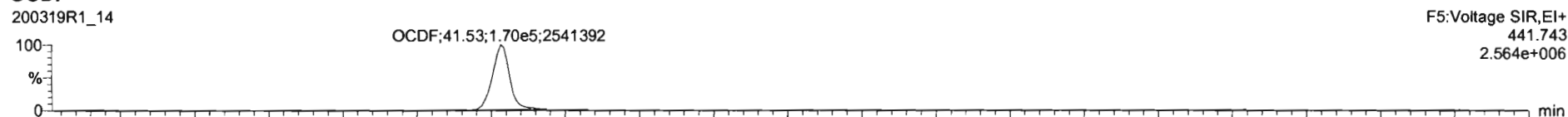
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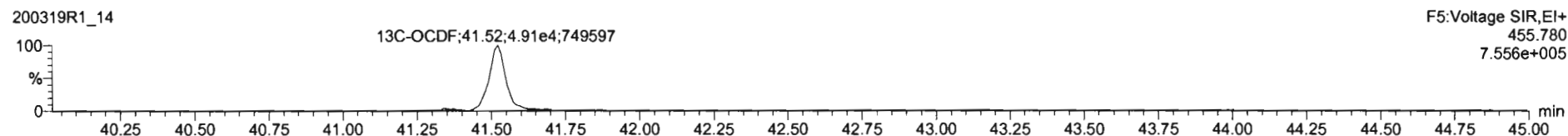
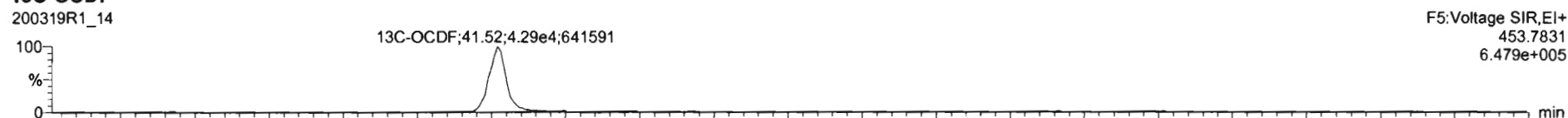
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Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

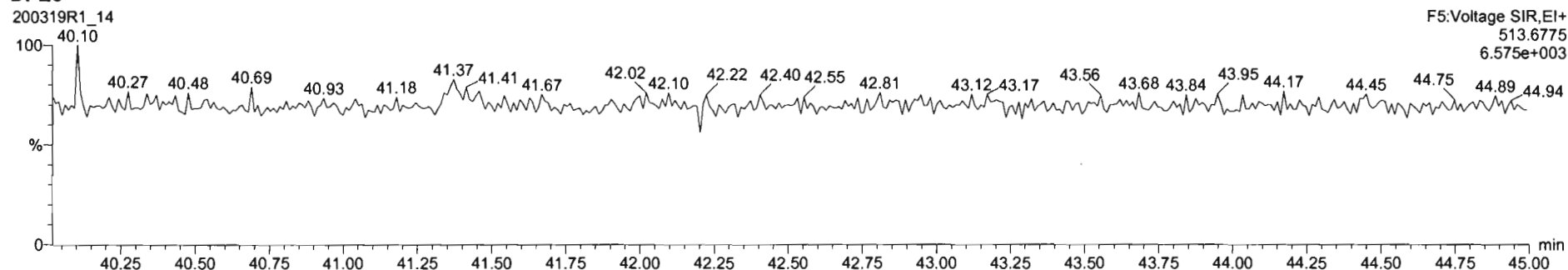
OCDF



13C-OCDF



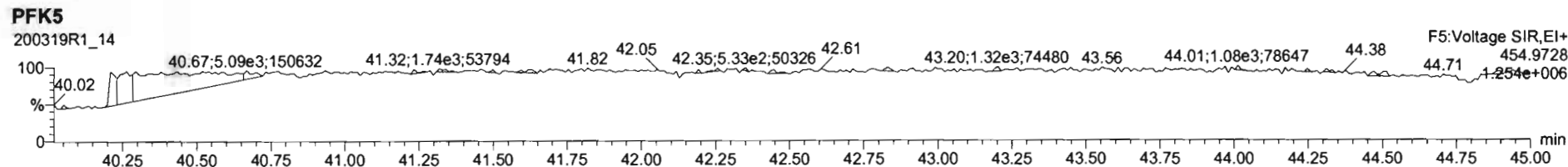
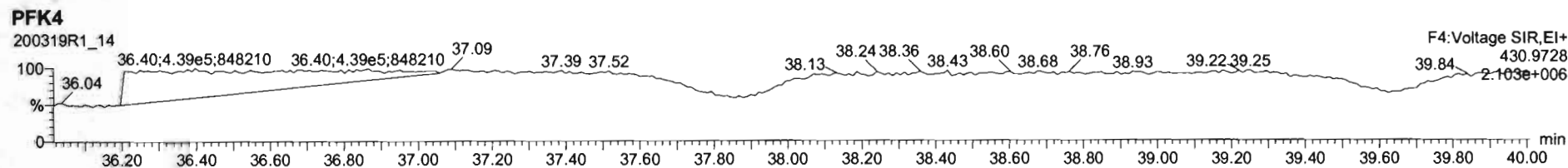
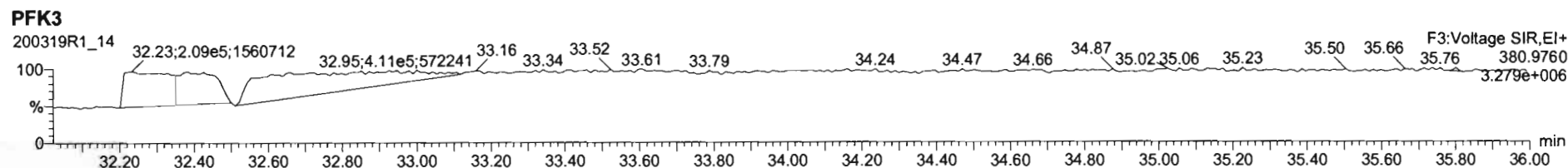
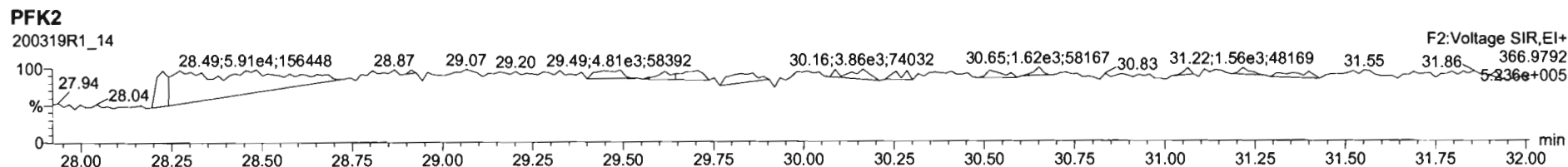
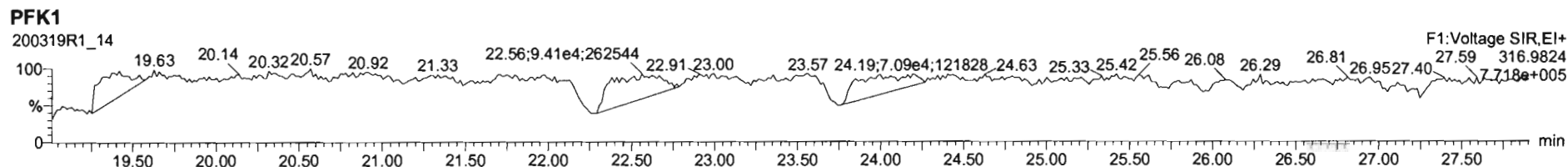
DPE5



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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_14, Date: 20-Mar-2020, Time: 02:39:26, ID: 1903654-05RE3@5X PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-11.qld

Last Altered: Tuesday, February 11, 2020 15:25:04 Pacific Standard Time

Printed: Tuesday, February 11, 2020 15:29:40 Pacific Standard Time

GRB 02/11/2020

C1 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	5.58e3	0.65	YES	0.988	10.052	25.781	25.76	1.001	1.001	0.71740		0.0951	0.643
2	2 1,2,3,7,8-PeCDD	7.65e3	0.61	NO	0.972	10.052	30.688	30.68	1.001	1.000	1.3051		0.363	1.30
3	3 1,2,3,4,7,8-HxCDD	7.74e3	1.41	NO	1.07	10.052	34.029	34.03	1.000	1.000	1.5577		0.234	1.56
4	4 1,2,3,6,7,8-HxCDD	4.45e4	1.24	NO	0.921	10.052	34.115	34.14	1.000	1.001	8.8870		0.242	8.89
5	5 1,2,3,7,8,9-HxCDD	1.77e4	1.24	NO	0.918	10.052	34.426	34.41	1.001	1.001	3.6443		0.262	3.64
6	6 1,2,3,4,6,7,8-HpCDD	1.19e6	1.01	NO	0.923	10.052	37.950	37.96	1.000	1.001	329.94		1.09	330
7	7 OCDD	1.09e7	0.89	NO	0.975	10.052	40.953	40.96	1.000	1.000	5086.5		0.694	5090
8	8 2,3,7,8-TCDF	1.09e6	0.75	NO	0.802	10.052	24.892	24.88	1.001	1.001	135.21	OK	0.144	135
9	9 1,2,3,7,8-PeCDF	2.48e6	1.53	NO	0.907	10.052	29.406	29.40	1.001	1.000	284.92		0.254	285
10	10 2,3,4,7,8-PeCDF	9.77e5	1.52	NO	0.952	10.052	30.392	30.38	1.001	1.000	123.39		0.237	123
11	11 1,2,3,4,7,8-HxCDF	2.70e6	1.17	NO	0.862	10.052	33.146	33.16	1.000	1.000	506.01		0.292	506
12	12 1,2,3,6,7,8-HxCDF	6.77e5	1.19	NO	0.841	10.052	33.273	33.28	1.000	1.001	128.43		0.310	128
13	13 2,3,4,6,7,8-HxCDF	1.49e5	1.21	NO	0.898	10.052	33.883	33.86	1.001	1.000	31.185		0.337	31.2
14	14 1,2,3,7,8,9-HxCDF	1.01e5	1.07	NO	0.858	10.052	34.754	34.80	1.000	1.001	21.941		0.405	21.9
15	15 1,2,3,4,6,7,8-HpCDF	6.13e5	0.97	NO	0.851	10.052	36.549	36.52	1.001	1.000	177.75		0.414	178
16	16 1,2,3,4,7,8,9-HpCDF	1.83e5	0.97	NO	0.980	10.052	38.525	38.53	1.000	1.000	63.760		0.415	63.8
17	17 OCDF	7.17e5	0.86	NO	0.806	10.052	41.134	41.15	1.000	1.000	305.50		0.293	305
18	18 13C-2,3,7,8-TCDD	1.58e6	0.78	NO	1.20	10.052	25.737	25.75	1.026	1.026	167.55	84.2	0.216	
19	19 13C-1,2,3,7,8-PeCDD	1.20e6	0.64	NO	0.967	10.052	30.487	30.67	1.215	1.222	157.67	79.2	0.353	
20	20 13C-1,2,3,4,7,8-HxCDD	9.24e5	1.27	NO	0.874	10.052	34.010	34.02	1.014	1.014	138.29	69.5	0.335	
21	21 13C-1,2,3,6,7,8-HxCDD	1.08e6	1.28	NO	1.05	10.052	34.110	34.12	1.017	1.017	135.29	68.0	0.280	
22	22 13C-1,2,3,7,8,9-HxCDD	1.05e6	1.24	NO	0.974	10.052	34.412	34.39	1.026	1.025	141.35	71.0	0.301	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.79e5	1.09	NO	0.747	10.052	37.967	37.94	1.132	1.131	136.38	68.5	0.323	
24	24 13C-OCDD	8.77e5	0.88	NO	0.707	10.052	40.852	40.95	1.218	1.221	162.42	40.8	0.204	
25	25 13C-2,3,7,8-TCDF	2.00e6	0.76	NO	1.07	10.052	24.916	24.87	0.993	0.991	163.25	82.0	0.309	
26	26 13C-1,2,3,7,8-PeCDF	1.91e6	1.57	NO	1.00	10.052	29.257	29.39	1.166	1.171	165.43	83.1	0.366	
27	27 13C-2,3,4,7,8-PeCDF	1.66e6	1.57	NO	0.962	10.052	30.211	30.36	1.204	1.210	149.58	75.2	0.381	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.51	NO	1.05	10.052	33.138	33.15	0.988	0.988	153.47	77.1	0.327	
29	29 13C-1,2,3,6,7,8-HxCDF	1.25e6	0.52	NO	1.19	10.052	33.238	33.26	0.991	0.992	137.10	68.9	0.288	
30	30 13C-2,3,4,6,7,8-HxCDF	1.06e6	0.51	NO	1.07	10.052	33.845	33.85	1.009	1.009	130.01	65.3	0.322	
31	31 13C-1,2,3,7,8,9-HxCDF	1.06e6	0.50	NO	0.922	10.052	34.747	34.75	1.036	1.036	150.89	75.8	0.372	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-11.qld

Last Altered: Tuesday, February 11, 2020 15:25:04 Pacific Standard Time

Printed: Tuesday, February 11, 2020 15:29:40 Pacific Standard Time

Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.06e5	0.44	NO	0.767	10.052	36.492	36.51	1.088	1.089	137.54	69.1	0.294	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.83e5	0.43	NO	0.552	10.052	38.504	38.53	1.148	1.149	138.04	69.4	0.409	
34	34 13C-OCDF	1.16e6	0.87	NO	0.789	10.052	41.087	41.13	1.225	1.226	192.19	48.3	0.148	
35	35 37Cl-2,3,7,8-TCDD	6.33e5			1.18	10.052	25.769	25.76	1.027	1.027	68.393	85.9	0.0671	
36	36 13C-1,2,3,4-TCDD	1.57e6	0.81	NO	1.00	10.052	25.080	25.09	1.000	1.000	198.97	100	0.259	
37	37 13C-1,2,3,4-TCDF	2.29e6	0.79	NO	1.00	10.052	23.420	23.44	1.000	1.000	198.97	100	0.329	
38	38 13C-1,2,3,4,6,9-HxCDF	1.52e6	0.50	NO	1.00	10.052	33.520	33.54	1.000	1.000	198.97	100	0.343	
39	39 Total Tetra-Dioxins				0.988	10.052	24.620		0.000		10.004		0.0951	10.6
40	40 Total Penta-Dioxins				0.972	10.052	29.960		0.000		15.415		0.363	15.4
41	41 Total Hexa-Dioxins				0.921	10.052	33.635		0.000		92.864		0.257	92.9
42	42 Total Hepta-Dioxins				0.923	10.052	37.640		0.000		870.79		1.09	871
43	43 Total Tetra-Furans				0.802	10.052	23.610		0.000		392.08		0.144	430
44	44 1st Func. Penta-Furans				0.907	10.052	27.090		0.000		31.031		0.0500	31.0
45	45 Total Penta-Furans				0.907	10.052	29.275		0.000		717.28		0.251	717
46	46 Total Hexa-Furans				0.898	10.052	33.555		0.000		873.26		0.321	873
47	47 Total Hepta-Furans				0.851	10.052	37.835		0.000		460.70		0.441	461

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Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.83	1.886e5	2.037e5	1.676e4	2.001e4	0.84	NO	3.677e4	4.6873	4.6870	0.0951
2	Total Tetra-Dioxins	22.25	4.309e4	6.090e4	4.327e3	5.673e3	0.76	NO	1.000e4	1.2747	1.2750	0.0951
3	Total Tetra-Dioxins	22.76	1.643e4	2.051e4	1.184e3	1.534e3	0.77	NO	2.718e3	0.34647	0.34600	0.0951
4	Total Tetra-Dioxins	23.61	1.301e4	1.533e4	1.044e3	1.194e3	0.88	NO	2.238e3	0.28533	0.28500	0.0951
5	Total Tetra-Dioxins	23.86	2.256e4	3.070e4	2.095e3	2.712e3	0.77	NO	4.808e3	0.61288	0.61300	0.0951
6	Total Tetra-Dioxins	24.06	3.041e4	3.653e4	2.290e3	2.911e3	0.79	NO	5.201e3	0.66297	0.66300	0.0951
7	Total Tetra-Dioxins	24.28	9.694e3	1.047e4	7.822e2	9.270e2	0.84	NO	1.709e3	0.21789	0.21800	0.0951
8	Total Tetra-Dioxins	24.54	6.135e3	9.542e3	5.022e2	7.536e2	0.67	NO	1.256e3	0.16009	0.16000	0.0951
9	Total Tetra-Dioxins	24.72	1.206e4	1.738e4	8.875e2	1.148e3	0.77	NO	2.035e3	0.25944	0.25900	0.0951
10	Total Tetra-Dioxins	25.09	7.349e3	8.854e3	6.371e2	7.933e2	0.80	NO	1.430e3	0.18234	0.18200	0.0951
11	Total Tetra-Dioxins	25.50	3.430e4	3.993e4	2.776e3	3.362e3	0.83	NO	6.138e3	0.78247	0.78200	0.0951
12	2,3,7,8-TCDD	25.76	3.148e4	5.095e4	2.193e3	3.387e3	0.65	YES	5.581e3	0.00000	0.64300	0.0951
13	Total Tetra-Dioxins	26.08	1.567e4	2.199e4	1.024e3	1.461e3	0.70	NO	2.485e3	0.31679	0.31700	0.0951
14	Total Tetra-Dioxins	26.21	4.808e3	5.108e3	2.526e2	3.199e2	0.79	NO	5.726e2	0.072990	0.073000	0.0951
15	Total Tetra-Dioxins	26.71	7.300e3	9.868e3	5.220e2	5.967e2	0.88	NO	1.119e3	0.14260	0.14300	0.0951

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.47	1.283e5	2.253e5	1.021e4	1.658e4	0.62	NO	2.680e4	4.5735	4.5740	0.363
2	Total Penta-Dioxins	28.96	3.890e4	5.852e4	2.060e3	3.339e3	0.62	NO	5.399e3	0.92151	0.92200	0.363
3	Total Penta-Dioxins	29.45	1.195e5	2.001e5	6.407e3	1.063e4	0.60	NO	1.704e4	2.9084	2.9080	0.363
4	Total Penta-Dioxins	29.61	6.557e4	1.061e5	2.838e3	4.993e3	0.57	NO	7.831e3	1.3366	1.3370	0.363
5	Total Penta-Dioxins	29.71	4.024e4	6.878e4	2.046e3	3.603e3	0.57	NO	5.649e3	0.96417	0.96400	0.363
6	Total Penta-Dioxins	29.92	4.992e4	9.005e4	4.589e3	7.786e3	0.59	NO	1.238e4	2.1123	2.1120	0.363
7	Total Penta-Dioxins	30.25	1.540e4	2.107e4	6.958e2	1.075e3	0.65	NO	1.771e3	0.30220	0.30200	0.363
8	1,2,3,7,8-PeCDD	30.68	6.110e4	8.441e4	2.903e3	4.743e3	0.61	NO	7.646e3	1.3051	1.3050	0.363
9	Total Penta-Dioxins	30.76	1.801e4	3.117e4	1.047e3	1.589e3	0.66	NO	2.635e3	0.44980	0.45000	0.363
10	Total Penta-Dioxins	31.06	2.291e4	3.660e4	1.331e3	1.842e3	0.72	NO	3.174e3	0.54170	0.54200	0.363

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.54	2.123e6	1.743e6	9.975e4	8.193e4	1.22	NO	1.817e5	38.507	38.507	0.257
2	Total Hexa-Dioxins	33.09	2.590e5	1.959e5	1.218e4	9.899e3	1.23	NO	2.208e4	4.6808	4.6810	0.257
3	Total Hexa-Dioxins	33.35	1.279e6	1.025e6	8.530e4	6.989e4	1.22	NO	1.552e5	32.894	32.894	0.257
4	Total Hexa-Dioxins	33.46	7.552e4	6.038e4	4.074e3	3.102e3	1.31	NO	7.176e3	1.5210	1.5210	0.257
5	1,2,3,4,7,8-HxCDD	34.03	8.902e4	6.594e4	4.535e3	3.208e3	1.41	NO	7.742e3	1.5577	1.5580	0.234
6	1,2,3,6,7,8-HxCDD	34.14	4.403e5	3.723e5	2.459e4	1.990e4	1.24	NO	4.448e4	8.8870	8.8870	0.242
7	Total Hexa-Dioxins	34.32	5.637e4	5.065e4	3.074e3	2.456e3	1.25	NO	5.530e3	1.1721	1.1720	0.257
8	1,2,3,7,8,9-HxCDD	34.41	1.695e5	1.230e5	9.796e3	7.904e3	1.24	NO	1.770e4	3.6443	3.6440	0.262

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.92	1.402e7	1.366e7	9.839e5	9.701e5	1.01	NO	1.954e6	540.85	540.85	1.09
2	1,2,3,4,6,7,8-HpCDD	37.96	9.015e6	8.914e6	5.983e5	5.938e5	1.01	NO	1.192e6	329.94	329.94	1.09

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.72	2.567e4	2.684e4	1.725e3	2.441e3	0.71	NO	4.166e3	0.51658	0.51700	0.144
2	Total Tetra-Furans	20.24	8.337e4	1.014e5	6.920e3	8.955e3	0.77	NO	1.587e4	1.9685	1.9680	0.144
3	Total Tetra-Furans	20.84	3.266e5	4.366e5	2.847e4	3.831e4	0.74	NO	6.678e4	8.2809	8.2810	0.144
4	Total Tetra-Furans	21.41	1.575e5	2.119e5	2.506e4	3.368e4	0.74	NO	5.874e4	7.2835	7.2840	0.144
5	Total Tetra-Furans	21.72	1.990e5	2.872e5	8.017e3	1.151e4	0.70	NO	1.953e4	2.4215	2.4220	0.144
6	Total Tetra-Furans	21.80	1.179e6	1.601e6	1.179e5	1.567e5	0.75	NO	2.746e5	34.051	34.051	0.144
7	Total Tetra-Furans	22.28	4.973e5	6.256e5	4.563e4	5.973e4	0.76	NO	1.054e5	13.065	13.065	0.144
8	Total Tetra-Furans	22.46	4.244e4	5.547e4	3.797e3	4.710e3	0.81	NO	8.507e3	1.0549	1.0550	0.144
9	Total Tetra-Furans	22.65	3.460e5	4.507e5	2.811e4	3.738e4	0.75	NO	6.549e4	8.1204	8.1200	0.144
10	Total Tetra-Furans	23.06	6.093e4	9.572e4	5.694e3	7.742e3	0.74	NO	1.344e4	1.6661	1.6660	0.144
11	Total Tetra-Furans	23.19	2.299e4	3.839e4	1.728e3	2.487e3	0.69	NO	4.216e3	0.52277	0.52300	0.144
12	Total Tetra-Furans	23.40	2.900e5	4.003e5	2.377e4	3.291e4	0.72	NO	0.000e0	0.00000	7.0280	0.144
13	Total Tetra-Furans	23.44	5.793e5	7.743e5	4.947e4	6.567e4	0.75	NO	0.000e0	0.00000	14.276	0.144
14	Total Tetra-Furans	23.95	6.379e6	8.517e6	5.027e5	6.734e5	0.75	NO	1.176e6	145.84	145.84	0.144
15	Total Tetra-Furans	24.07	6.476e4	7.868e4	3.268e3	3.889e3	0.84	NO	7.158e3	0.88754	0.88800	0.144
16	Total Tetra-Furans	24.24	2.400e5	3.189e5	2.019e4	2.626e4	0.77	NO	4.645e4	5.7601	5.7600	0.144
17	Total Tetra-Furans	24.46	2.216e4	2.938e4	2.581e3	3.435e3	0.75	NO	6.016e3	0.74592	0.74600	0.144
18	Total Tetra-Furans	24.67	8.502e4	1.196e5	6.278e3	8.559e3	0.73	NO	1.484e4	1.8399	1.8400	0.144
19	Total Tetra-Furans	24.78	7.054e5	9.351e5	4.691e4	6.404e4	0.73	NO	1.110e5	13.758	13.758	0.144
20	2,3,7,8-TCDF	24.88	6.205e6	8.419e6	4.656e5	6.248e5	0.75	NO	1.090e6	135.21	135.21	0.144
21	Total Tetra-Furans	25.03	4.526e4	5.629e4	3.713e3	5.430e3	0.68	NO	9.142e3	1.1336	1.1340	0.144
22	Total Tetra-Furans	25.26	2.928e5	3.886e5	2.110e4	2.862e4	0.74	NO	4.972e4	6.1649	6.1650	0.144
23	Total Tetra-Furans	25.50	7.286e4	1.042e5	5.367e3	7.477e3	0.72	NO	1.284e4	1.5927	1.5930	0.144
24	Total Tetra-Furans	26.30	1.015e4	7.863e3	6.360e2	5.145e2	1.24	YES	0.000e0	0.00000	0.11300	0.144
25	Total Tetra-Furans	26.39	9.844e3	1.319e4	6.869e2	9.303e2	0.74	NO	1.617e3	0.20054	0.20100	0.144
26	Total Tetra-Furans	26.56	1.959e4	1.410e4	1.334e3	8.554e2	1.56	YES	0.000e0	0.00000	0.18800	0.144
27	Total Tetra-Furans	26.86	9.908e5	1.123e6	6.419e4	7.248e4	0.89	YES	0.000e0	0.00000	15.909	0.144

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.86	2.493e6	1.522e6	1.554e5	9.656e4	1.61	NO	2.520e5	31.031	31.031	0.0500

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.29	3.109e5	1.823e5	1.791e4	1.128e4	1.59	NO	2.920e4	3.5951	3.5950	0.251
2	Total Penta-Furans	28.42	1.206e7	7.878e6	6.996e5	4.586e5	1.52	NO	1.158e6	142.63	142.63	0.251
3	Total Penta-Furans	28.50	5.647e5	3.569e5	1.698e4	1.108e4	1.53	NO	2.806e4	3.4553	3.4550	0.251
4	Total Penta-Furans	29.00	4.167e5	2.806e5	2.882e4	1.824e4	1.58	NO	4.706e4	5.7946	5.7950	0.251
5	Total Penta-Furans	29.08	3.131e5	2.054e5	1.660e4	1.064e4	1.56	NO	2.724e4	3.3547	3.3550	0.251
6	Total Penta-Furans	29.22	2.461e6	1.568e6	1.330e5	8.649e4	1.54	NO	2.194e5	27.022	27.022	0.251
7	1,2,3,7,8-PeCDF	29.40	2.561e7	1.700e7	1.500e6	9.772e5	1.53	NO	2.477e6	284.92	284.92	0.254
8	Total Penta-Furans	29.49	4.411e5	3.199e5	1.754e4	1.232e4	1.42	NO	2.985e4	3.6762	3.6760	0.251
9	Total Penta-Furans	29.67	9.472e6	6.145e6	4.685e5	3.066e5	1.53	NO	7.751e5	95.438	95.438	0.251
10	Total Penta-Furans	30.16	5.148e4	2.978e4	2.930e3	1.672e3	1.75	NO	4.602e3	0.56667	0.56700	0.251
11	Total Penta-Furans	30.27	1.520e5	9.316e4	8.180e3	4.664e3	1.75	NO	1.284e4	1.5816	1.5820	0.251
12	2,3,4,7,8-PeCDF	30.38	1.013e7	6.688e6	5.886e5	3.881e5	1.52	NO	9.767e5	123.39	123.39	0.237
13	Total Penta-Furans	30.42	3.881e6	2.417e6	7.814e4	4.789e4	1.63	NO	1.260e5	15.520	15.520	0.251
14	Total Penta-Furans	31.31	6.192e5	3.907e5	3.151e4	1.996e4	1.58	NO	5.148e4	6.3386	6.3390	0.251

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.00	9.090e5	7.860e5	4.319e4	3.674e4	1.18	NO	7.992e4	15.395	15.395	0.321
2	Total Hexa-Furans	32.17	4.236e6	3.594e6	1.966e5	1.689e5	1.16	NO	3.655e5	70.406	70.406	0.321
3	Total Hexa-Furans	32.52	6.794e4	5.775e4	2.980e3	2.730e3	1.09	NO	5.710e3	1.0999	1.1000	0.321
4	Total Hexa-Furans	32.70	3.839e6	3.268e6	1.774e5	1.495e5	1.19	NO	3.269e5	62.966	62.966	0.321
5	Total Hexa-Furans	33.06	2.555e5	2.306e5	1.062e4	9.420e3	1.13	NO	2.004e4	3.8607	3.8610	0.321
6	1,2,3,4,7,8-HxCDF	33.16	2.848e7	2.472e7	1.456e6	1.242e6	1.17	NO	2.698e6	506.01	506.01	0.292
7	1,2,3,6,7,8-HxCDF	33.28	7.140e6	5.875e6	3.678e5	3.092e5	1.19	NO	6.770e5	128.43	128.43	0.310
8	Total Hexa-Furans	33.56	9.084e4	8.421e4	4.683e3	3.955e3	1.18	NO	8.638e3	1.6639	1.6640	0.321
9	2,3,4,6,7,8-HxCDF	33.86	1.534e6	1.310e6	8.167e4	6.746e4	1.21	NO	1.491e5	31.185	31.185	0.337
10	1,2,3,7,8,9-HxCDF	34.80	2.015e6	1.752e6	5.189e4	4.871e4	1.07	NO	1.006e5	21.941	21.941	0.405
11	Total Hexa-Furans	34.81	2.220e6	1.877e6	8.507e4	7.225e4	1.18	NO	1.573e5	30.303	30.303	0.321

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.52	4.619e6	4.734e6	3.016e5	3.115e5	0.97	NO	6.131e5	177.75	177.75	0.414
2	Total Hepta-Furans	36.92	7.818e4	8.342e4	5.107e3	5.232e3	0.98	NO	1.034e4	3.4804	3.4800	0.441
3	Total Hepta-Furans	37.13	4.540e6	4.703e6	3.160e5	3.248e5	0.97	NO	6.408e5	215.71	215.71	0.441
4	1,2,3,4,7,8,9-HpCDF	38.53	1.612e6	1.648e6	9.019e4	9.277e4	0.97	NO	1.830e5	63.760	63.760	0.415

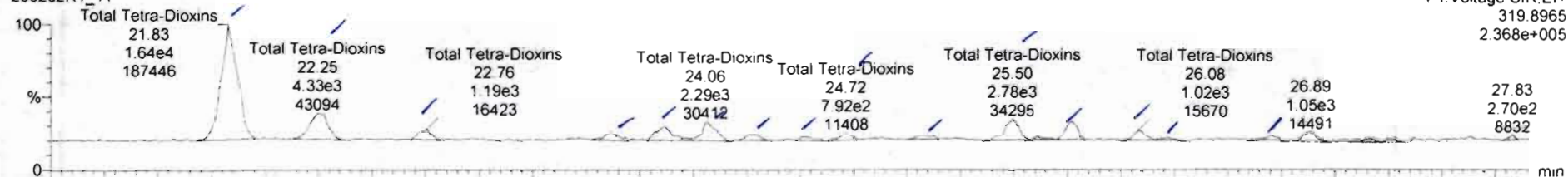
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Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

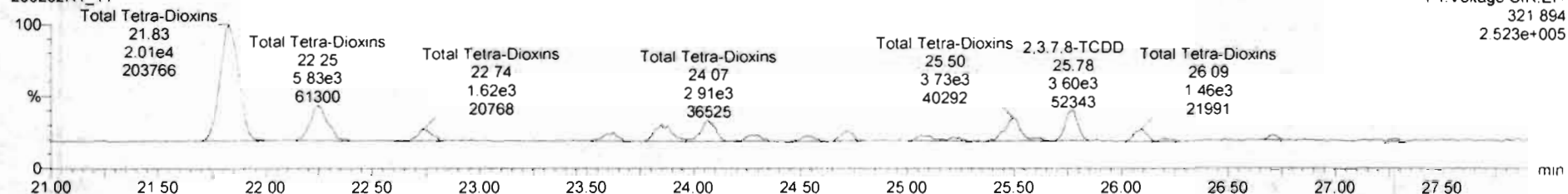
Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

2,3,7,8-TCDD

200202R1_11

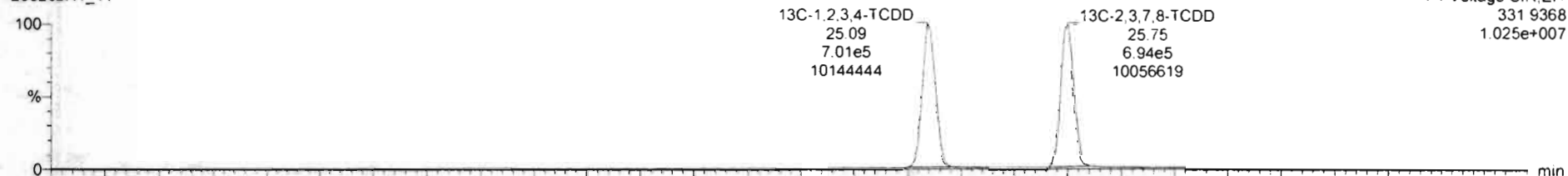


200202R1_11

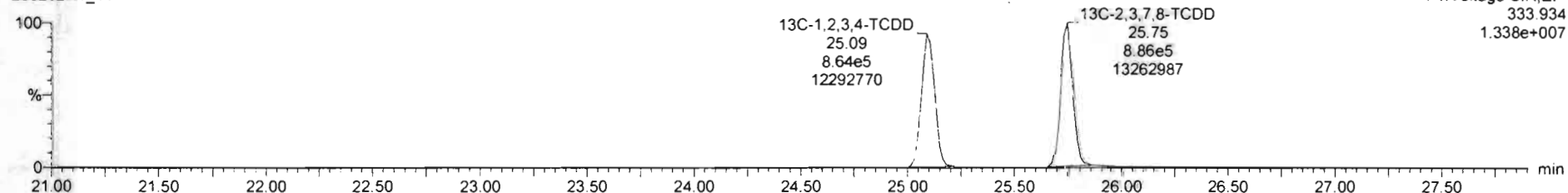


13C-2,3,7,8-TCDD

200202R1_11

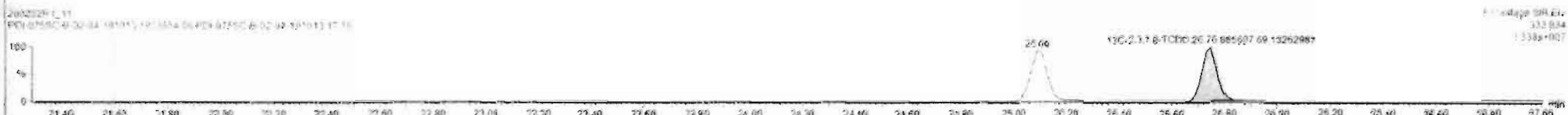
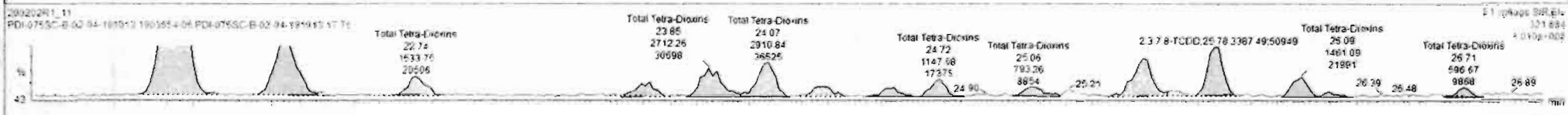
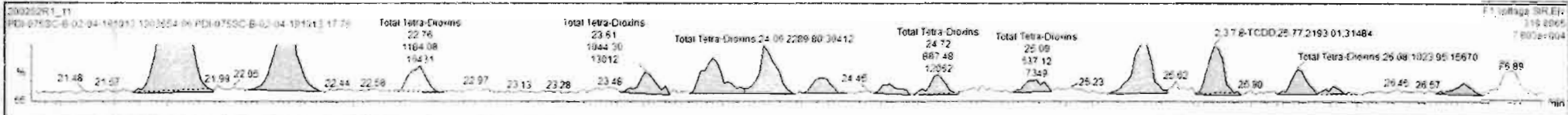


200202R1_11



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9981	10.952			10.0	0.0951	10.6	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Tetra-Dioxins	21.83	1.876e4	2.001e4	0.84	NO	4.6872	4.6872
2	Total Tetra-Dioxins	22.25	4.327e3	5.673e3	0.76	NO	1.2747	1.2747
3	Total Tetra-Dioxins	22.76	1.194e3	1.534e3	0.77	NO	0.34647	0.34647
4	Total Tetra-Dioxins	23.61	1.544e3	1.194e3	0.67	NO	0.28532	0.28533
5	Total Tetra-Dioxins	23.86	2.095e3	2.712e3	0.77	NO	0.61288	0.61288
6	Total Tetra-Dioxins	24.06	2.290e3	2.911e3	0.79	NO	0.68297	0.68297
7	Total Tetra-Dioxins	24.28	7.822e2	9.270e2	0.84	NO	0.21789	0.21789
8	Total Tetra-Dioxins	24.54	5.022e2	7.536e2	0.67	NO	0.16009	0.16009
9	Total Tetra-Dioxins	24.72	6.875e2	1.148e3	0.77	NO	0.25944	0.25944
10	Total Tetra-Dioxins	25.09	6.371e2	7.933e2	0.60	NO	0.18234	0.18234
11	Total Tetra-Dioxins	25.50	2.776e3	3.362e3	0.83	NO	0.78247	0.78247
12	2,3,7,8-TCDD	25.77	2.193e3	3.387e3	0.65	YES	0.64263	0.00000
13	Total Tetra-Dioxins	26.08	1.324e3	1.461e3	0.70	NO	0.31679	0.31679
14	Total Tetra-Dioxins	26.21	2.526e2	3.199e2	0.79	NO	0.072990	0.072990
15	Total Tetra-Dioxins	26.71	5.220e2	5.967e2	0.87	NO	0.14260	0.14260



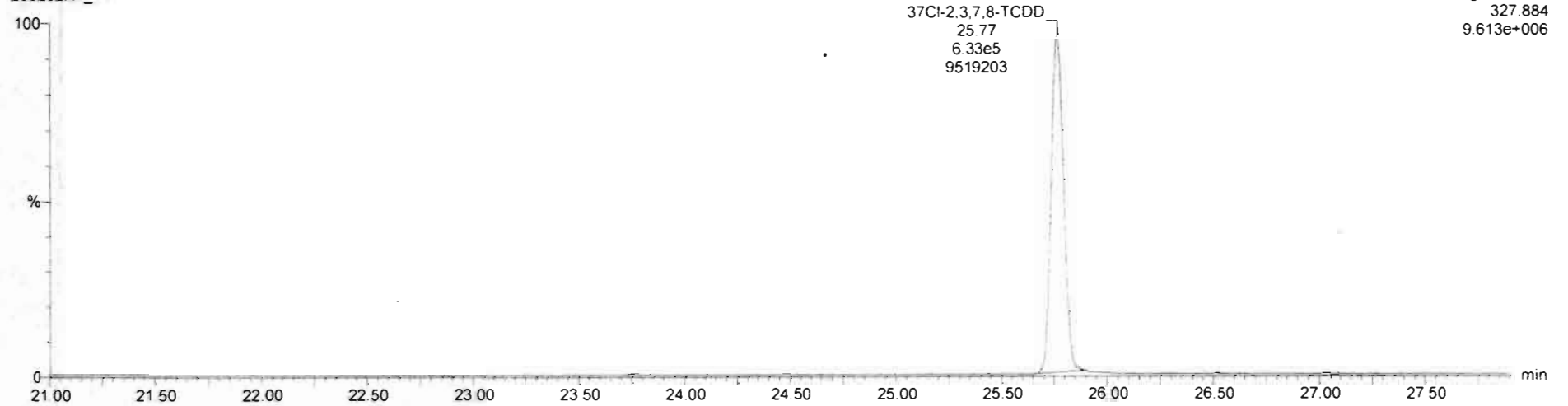
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Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

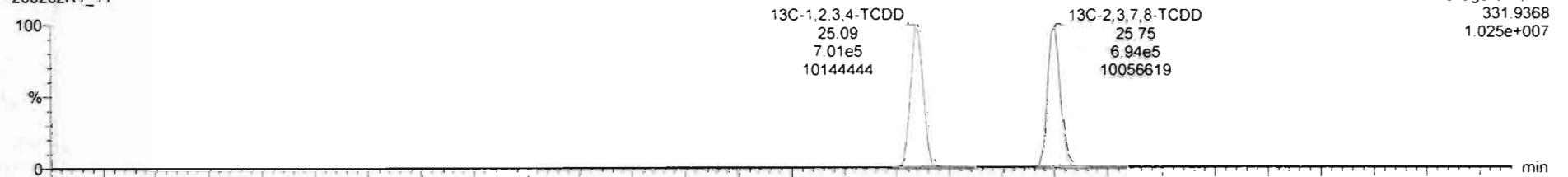
37Cl-2,3,7,8-TCDD

200202R1_11

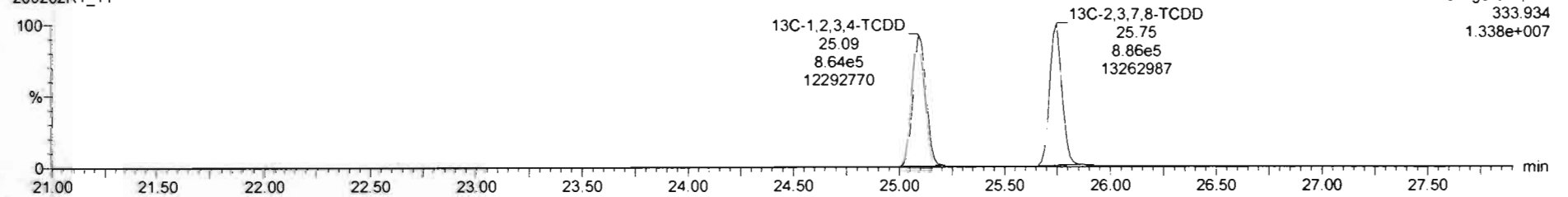


13C-1,2,3,4-TCDD

200202R1_11



200202R1_11



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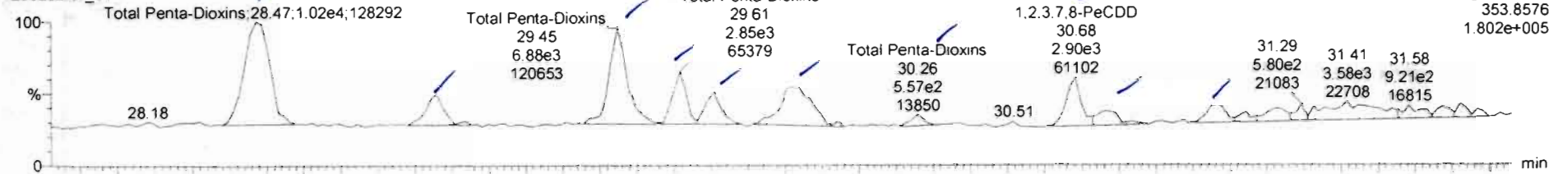
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

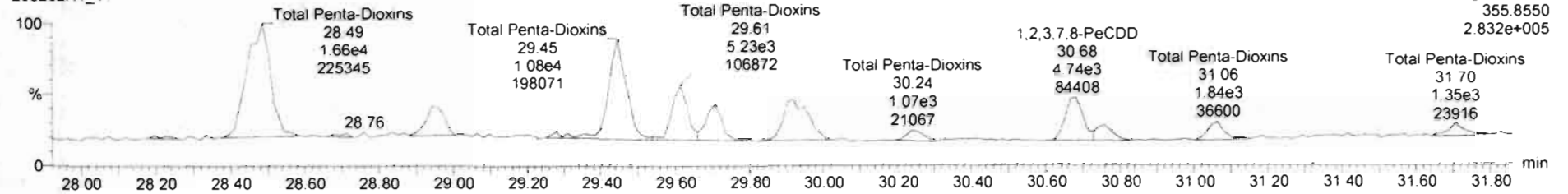
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1,2,3,7,8-PeCDD

200202R1_11

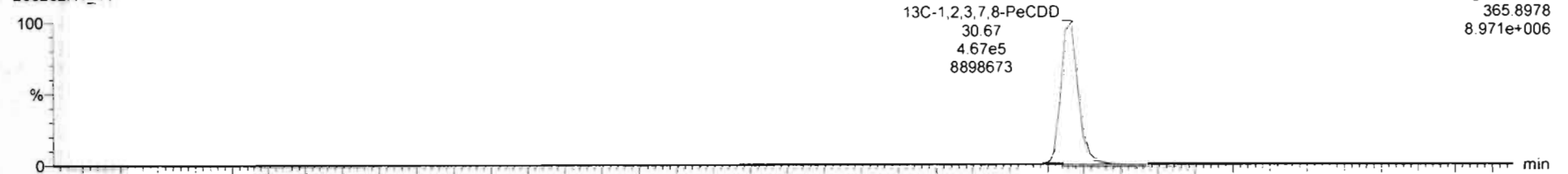


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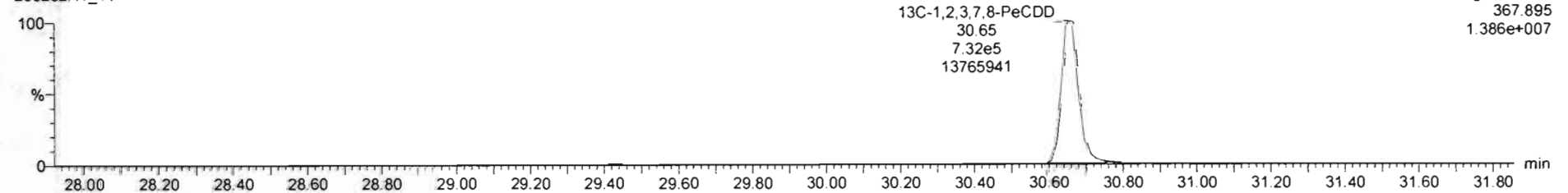


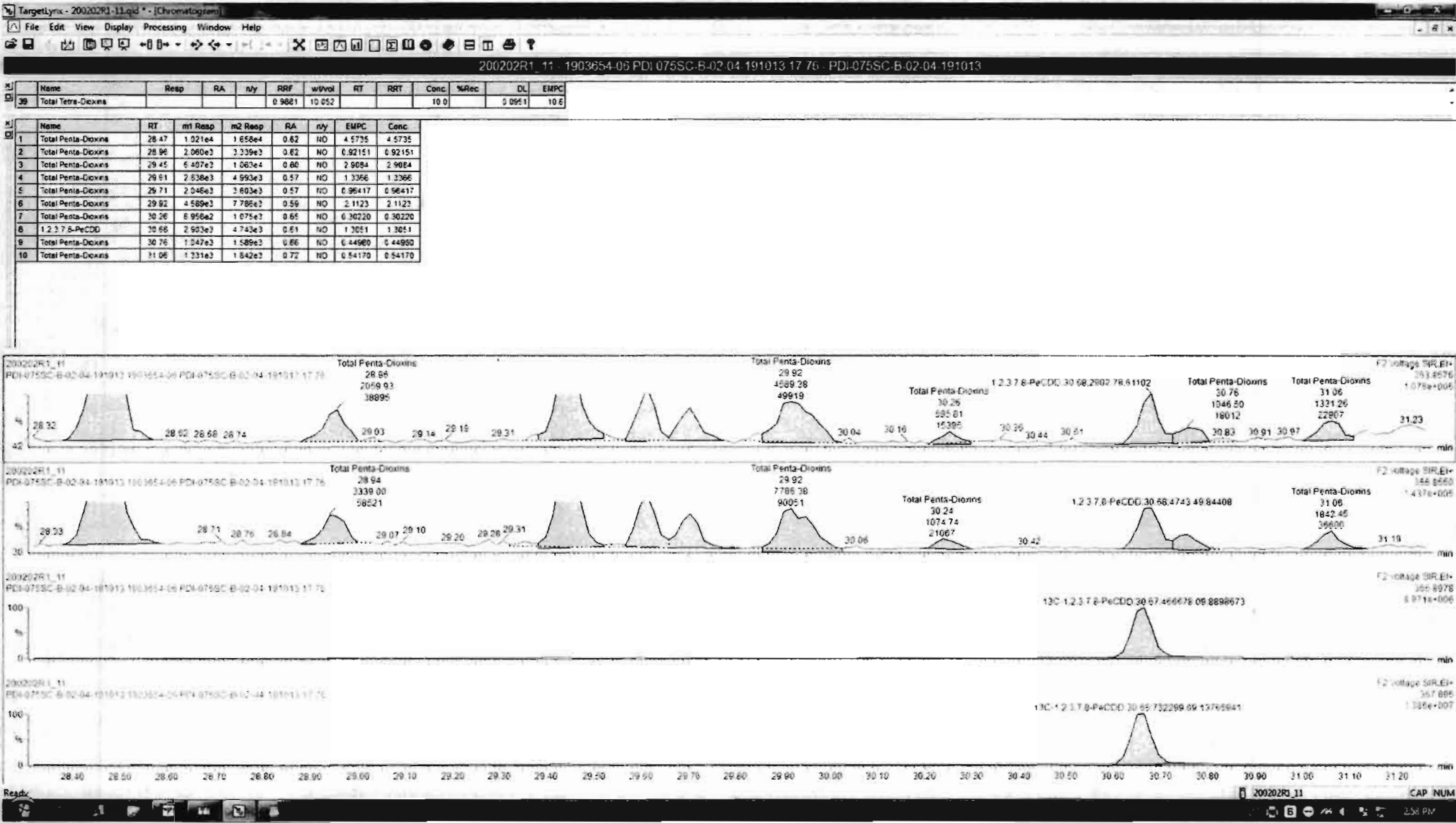
13C-1,2,3,7,8-PeCDD

200202R1_11



200202R1_11





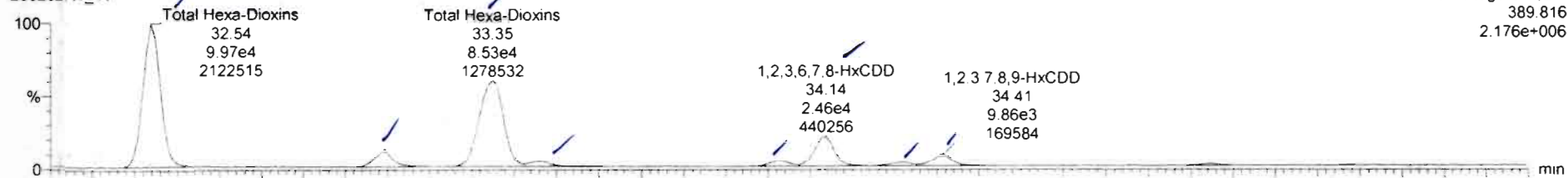
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

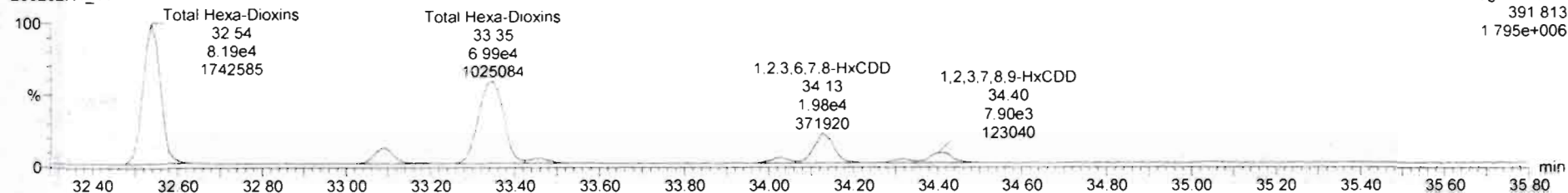
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1,2,3,4,7,8-HxCDD

200202R1_11

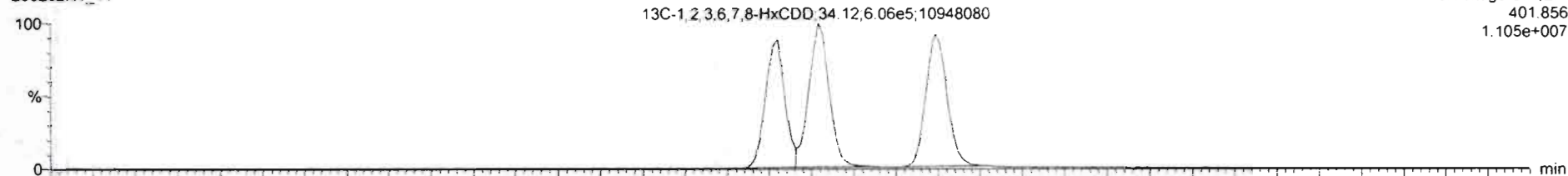


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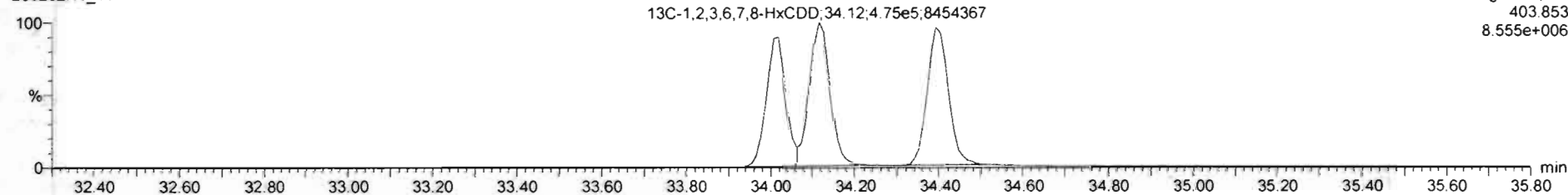


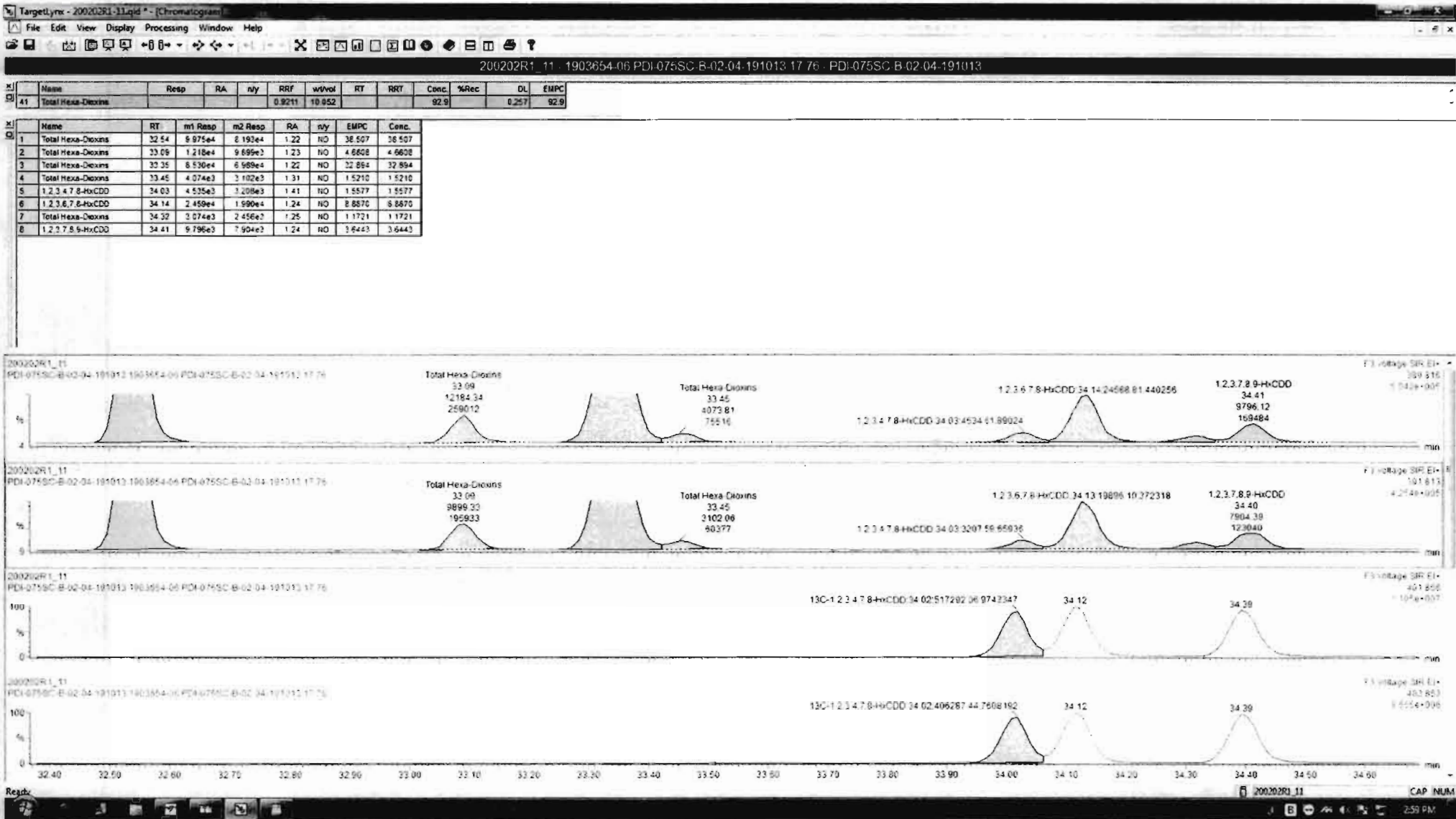
13C-1,2,3,4,7,8-HxCDD

200202R1_11



200202R1_11





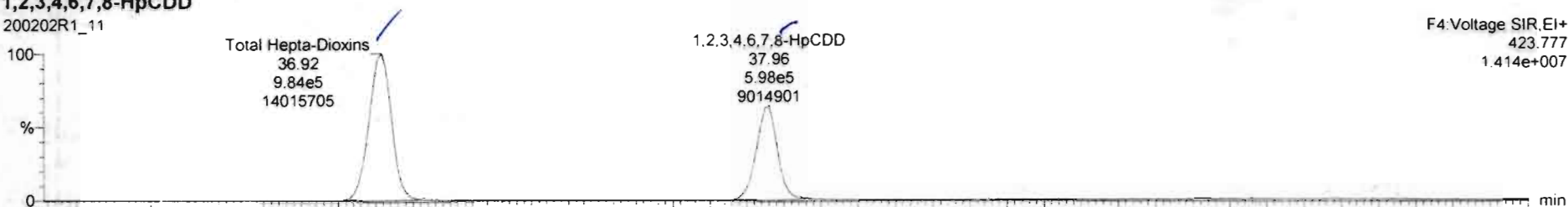
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

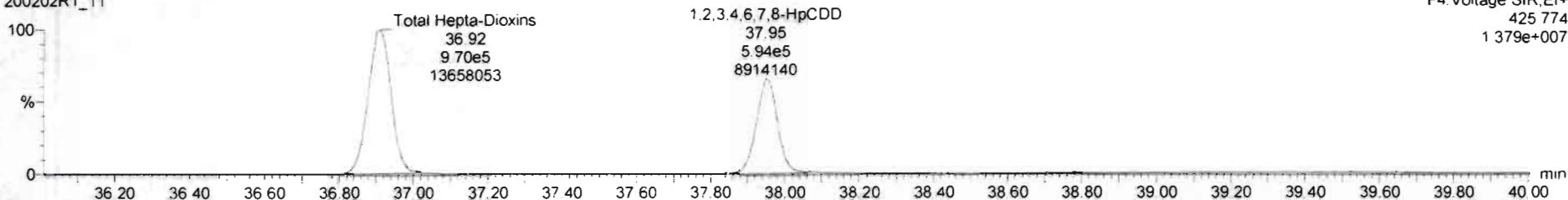
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1,2,3,4,6,7,8-HpCDD

200202R1_11

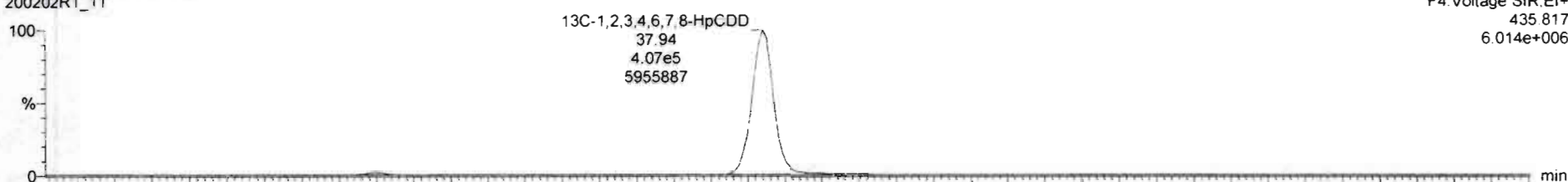


200202R1_11

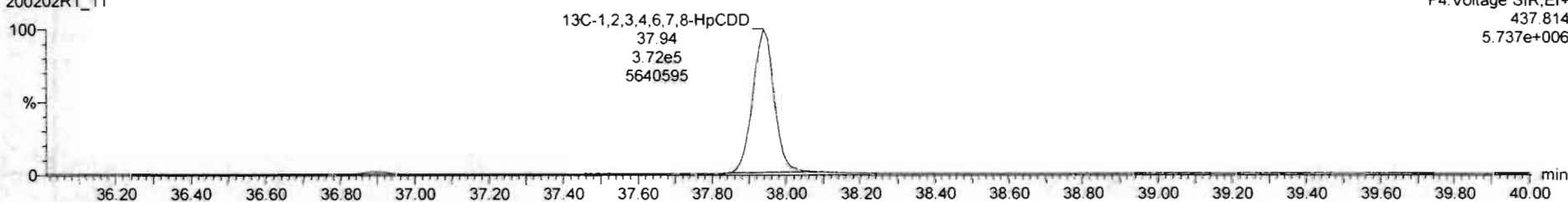


13C-1,2,3,4,6,7,8-HpCDD

200202R1_11



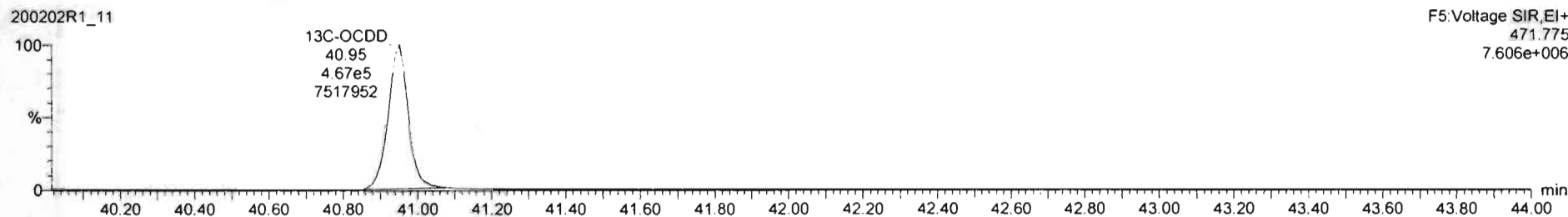
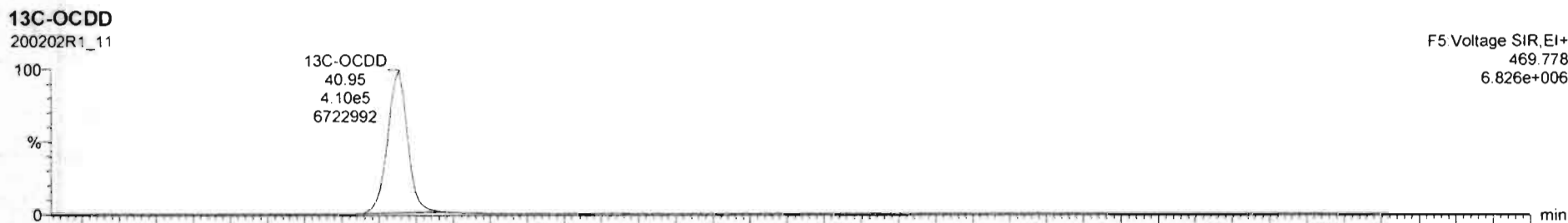
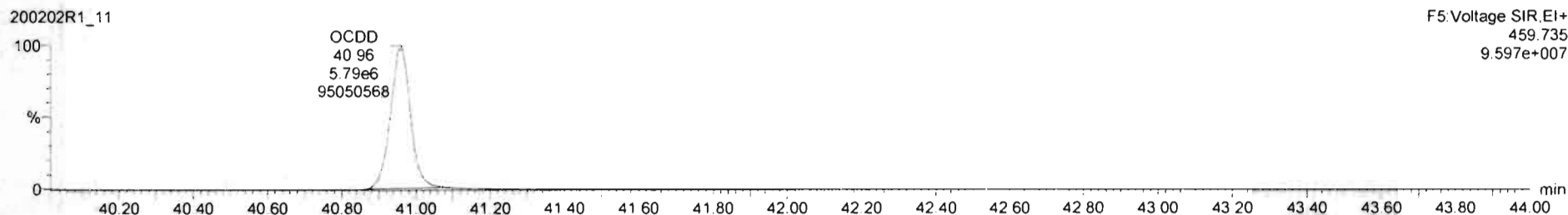
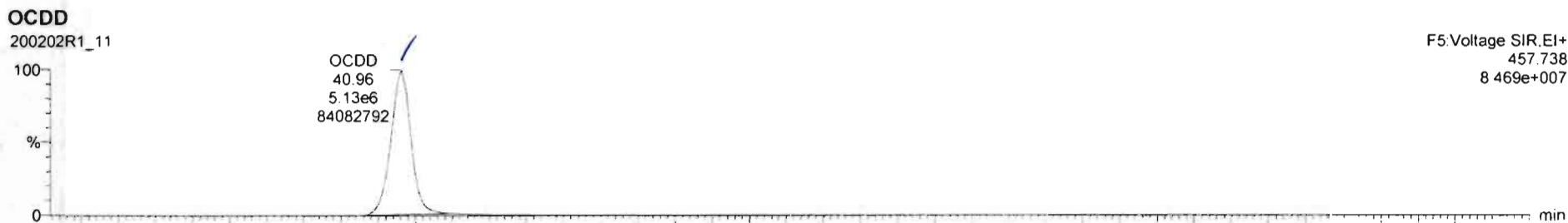
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

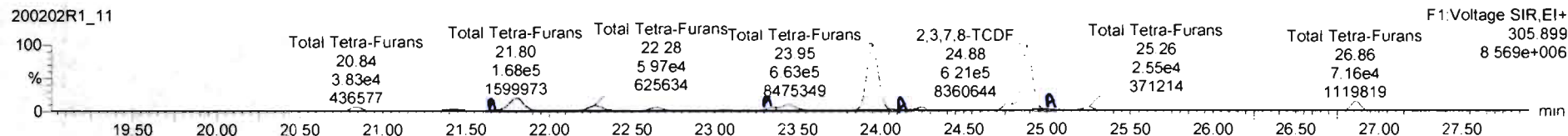


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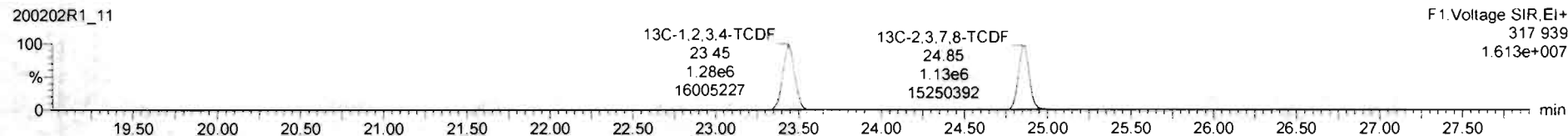
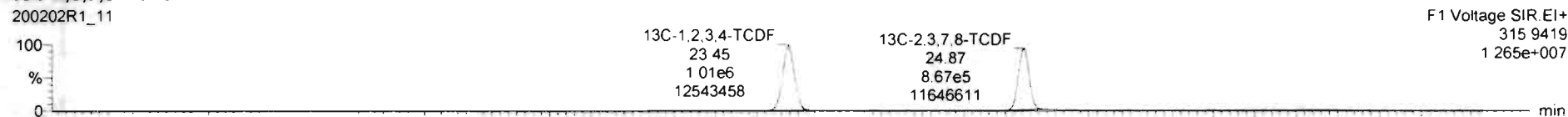
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

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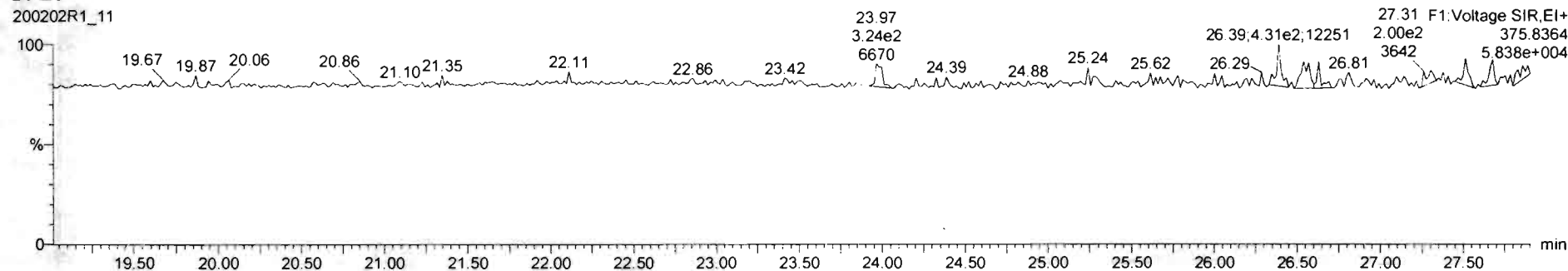
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



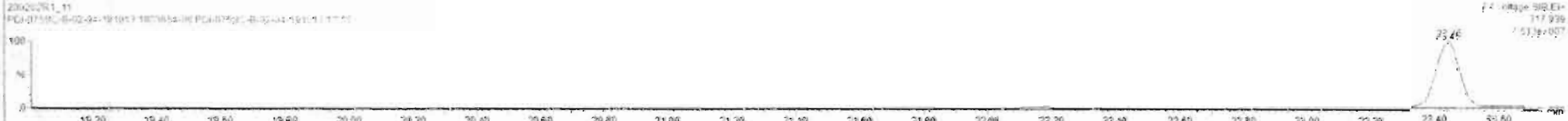
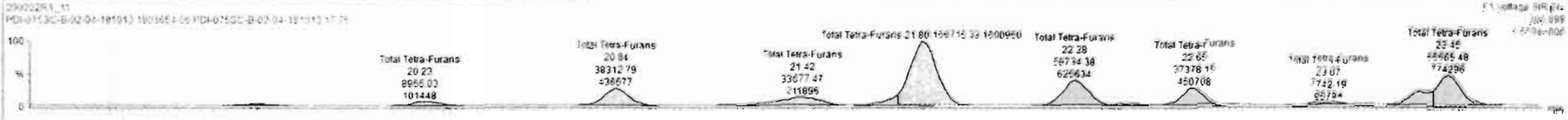
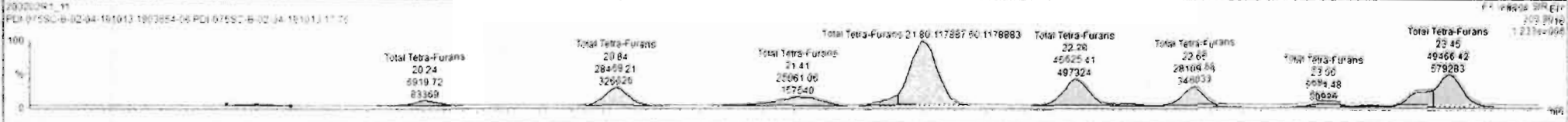
DPE1

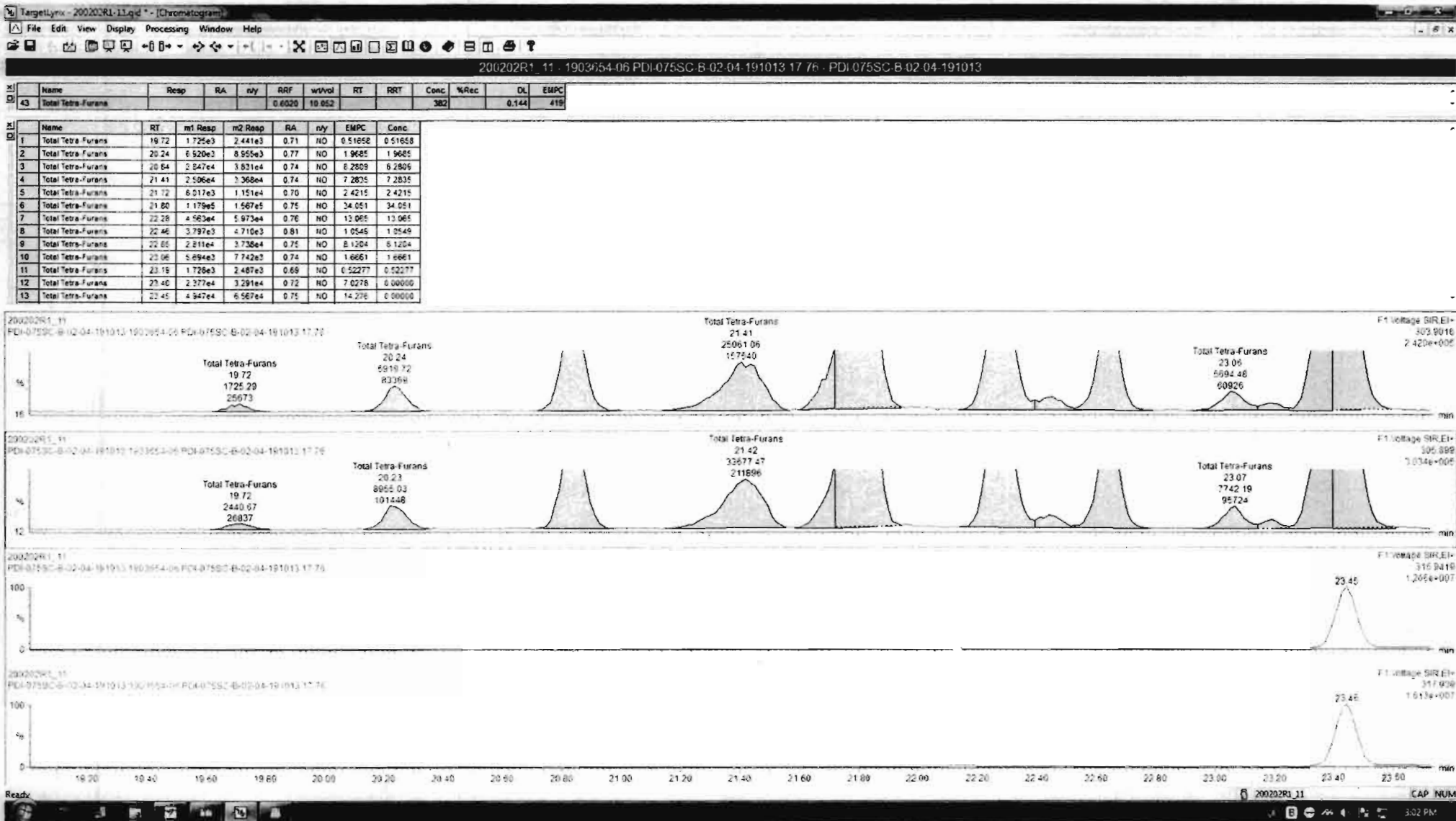


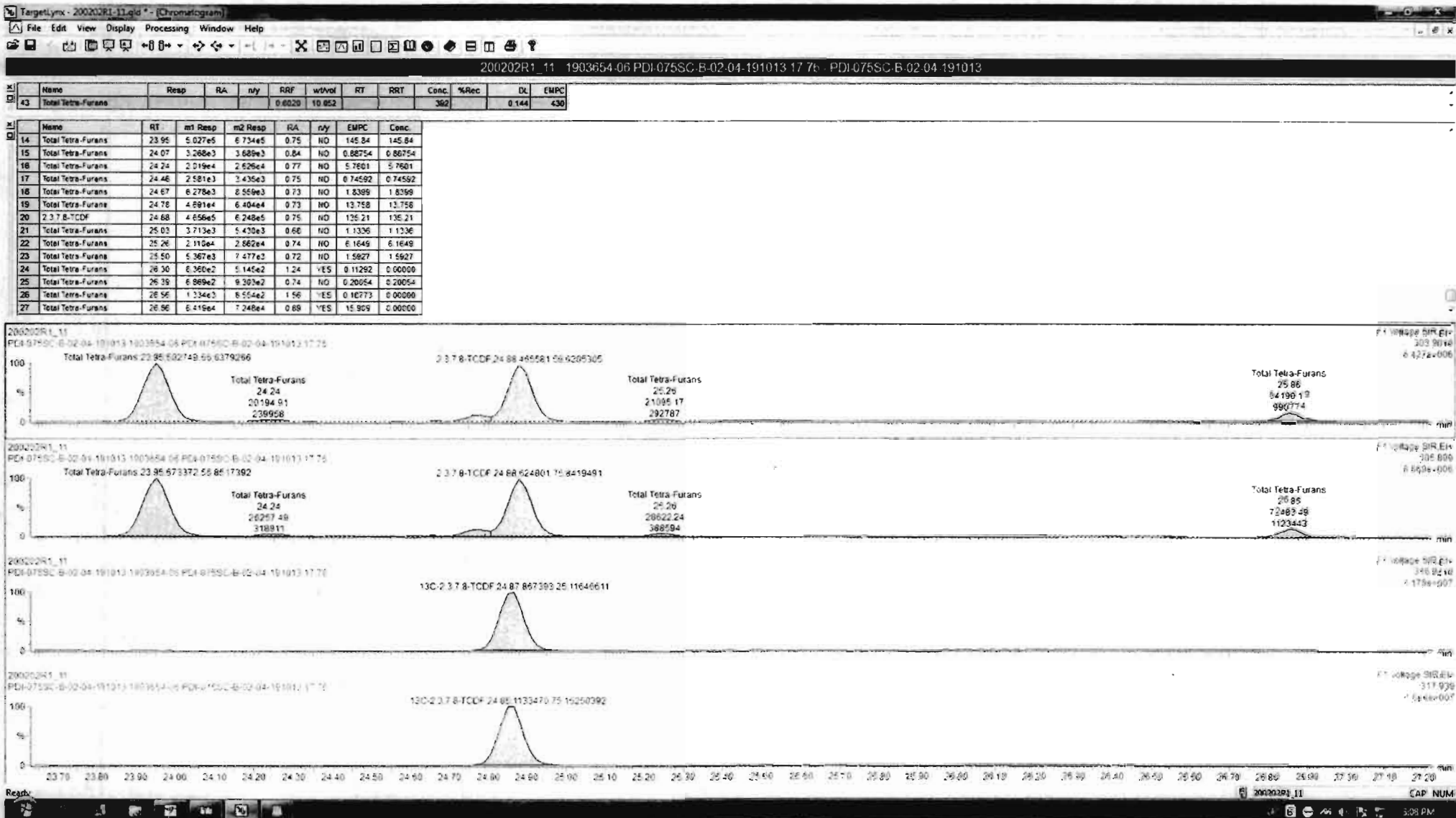
200202R1_11 - 1903654-06 PDI-075SC-B-02-04-191013 17 76 PDI-075SC-B-02-04-191013

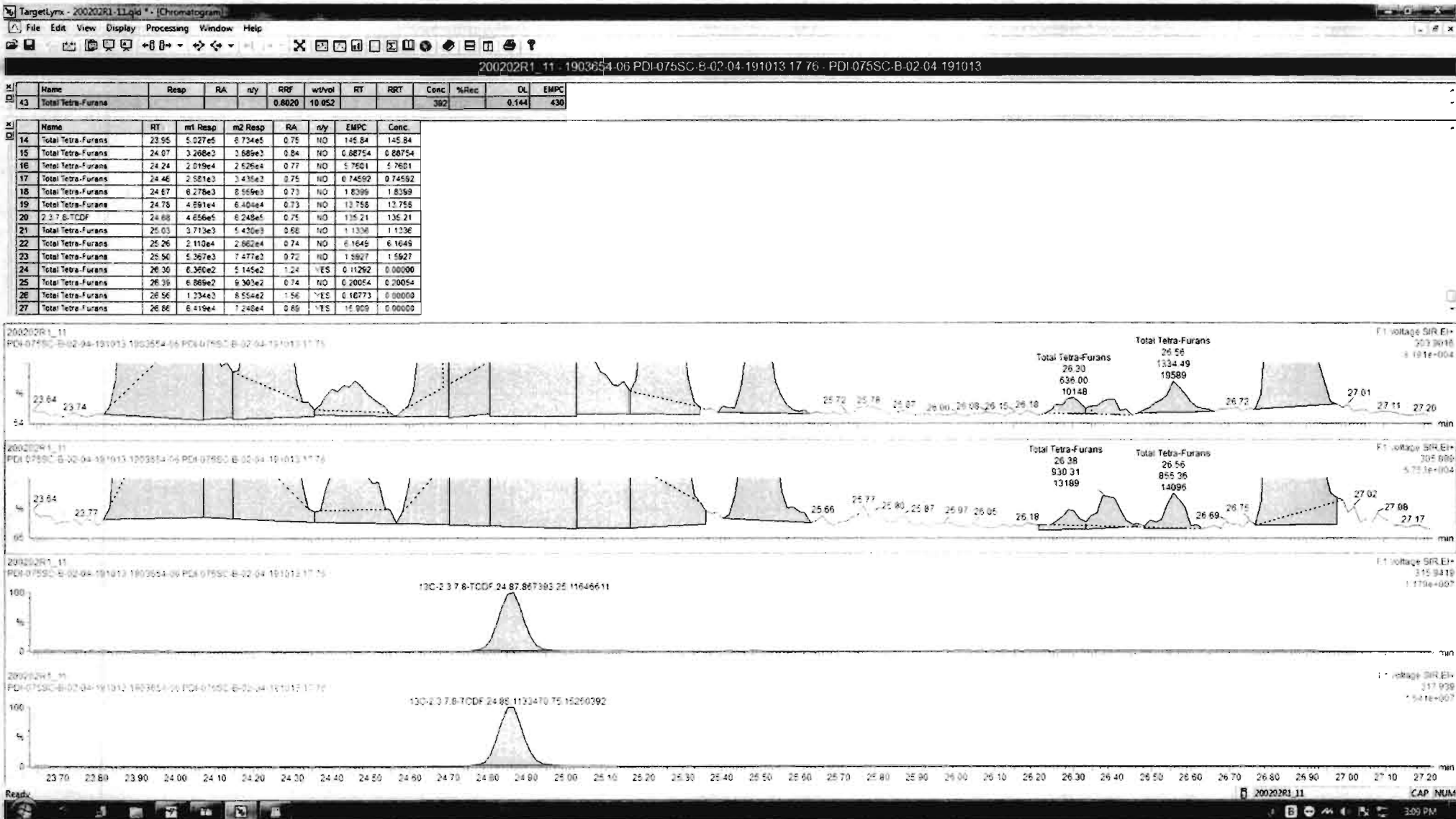
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.6020	10.052			382		0.144	419

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Tetra-Furans	19.72	1.725e3	2.441e3	0.71	NO	0.51658	0.51658
2	Total Tetra-Furans	20.24	6.920e3	8.955e3	0.77	NO	1.9685	1.9685
3	Total Tetra-Furans	20.64	2.647e4	3.831e4	0.74	NO	8.2809	8.2809
4	Total Tetra-Furans	21.41	2.506e4	3.368e4	0.74	NO	7.2835	7.2835
5	Total Tetra-Furans	21.72	6.017e3	1.151e4	0.70	NO	2.4215	2.4215
6	Total Tetra-Furans	21.80	1.179e5	1.587e5	0.75	NO	34.051	34.051
7	Total Tetra-Furans	22.28	4.583e4	5.973e4	0.76	NO	13.065	13.065
8	Total Tetra-Furans	22.46	3.797e3	4.710e3	0.81	NO	1.9549	1.9549
9	Total Tetra-Furans	22.65	2.811e4	3.738e4	0.75	NO	8.1204	8.1204
10	Total Tetra-Furans	23.06	5.694e3	7.742e3	0.74	NO	1.6661	1.6661
11	Total Tetra-Furans	23.19	1.728e3	2.487e3	0.69	NO	0.52277	0.52277
12	Total Tetra-Furans	23.40	3.277e4	3.291e4	0.72	NO	7.0276	0.00000
13	Total Tetra-Furans	23.45	4.947e4	6.567e4	0.75	NO	14.276	0.00000









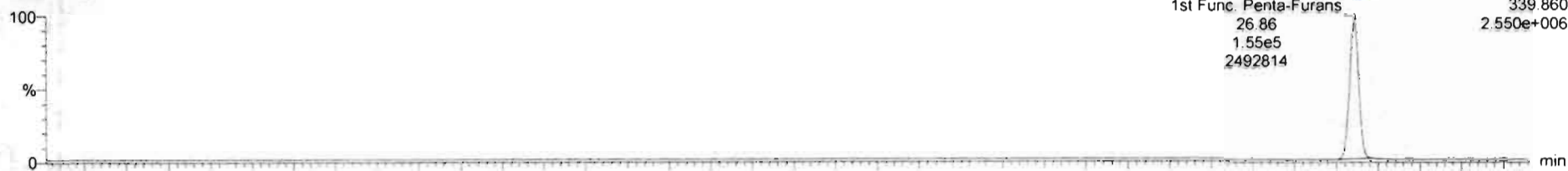
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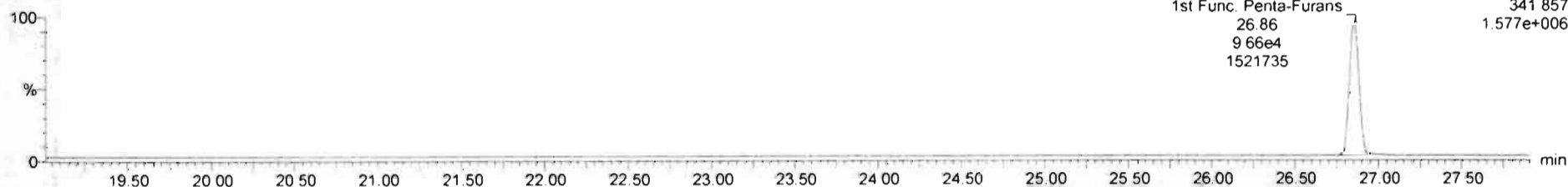
Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

1st Func. Penta-Furans

200202R1_11

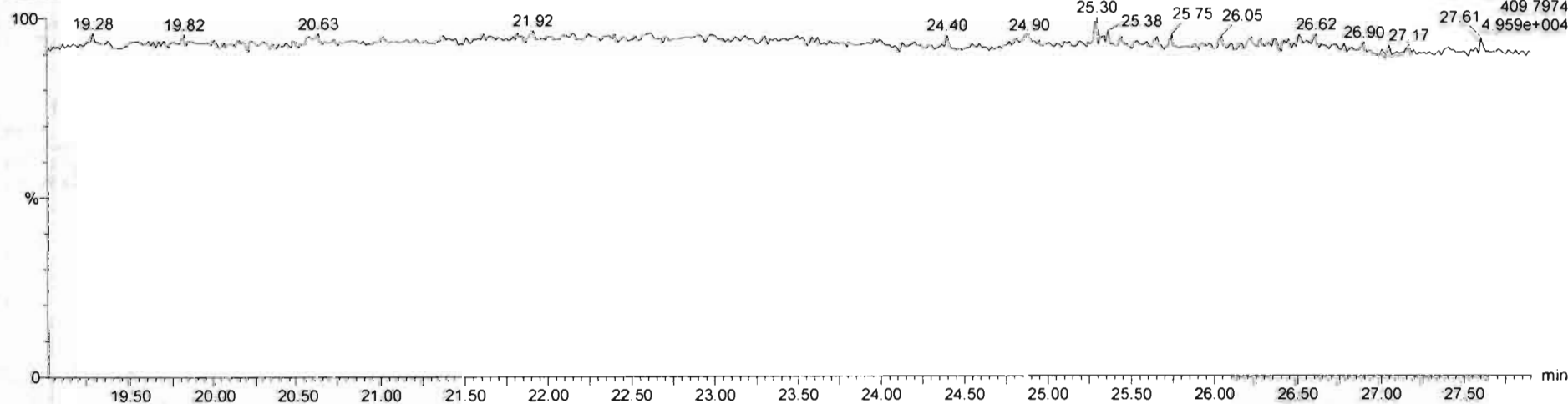


200202R1_11



DPE6

200202R1_11

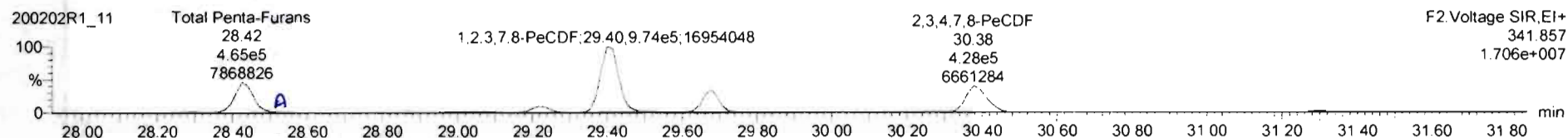
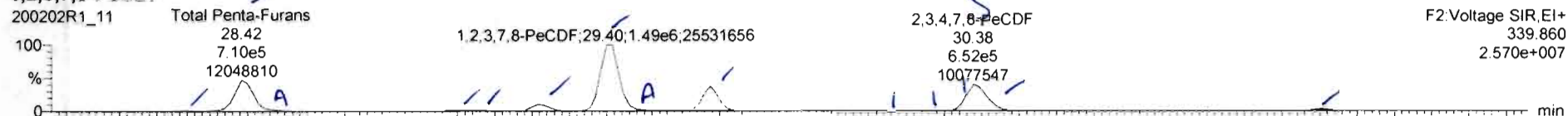


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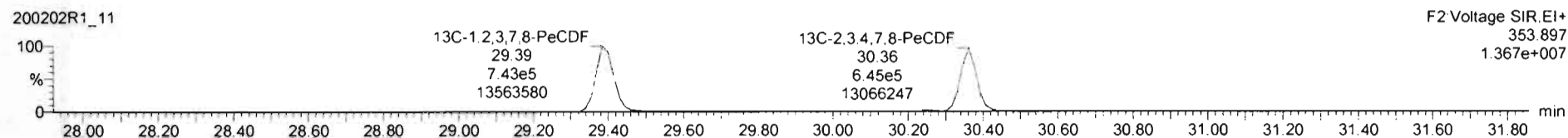
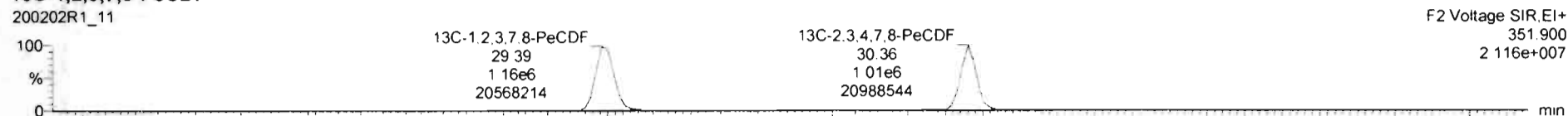
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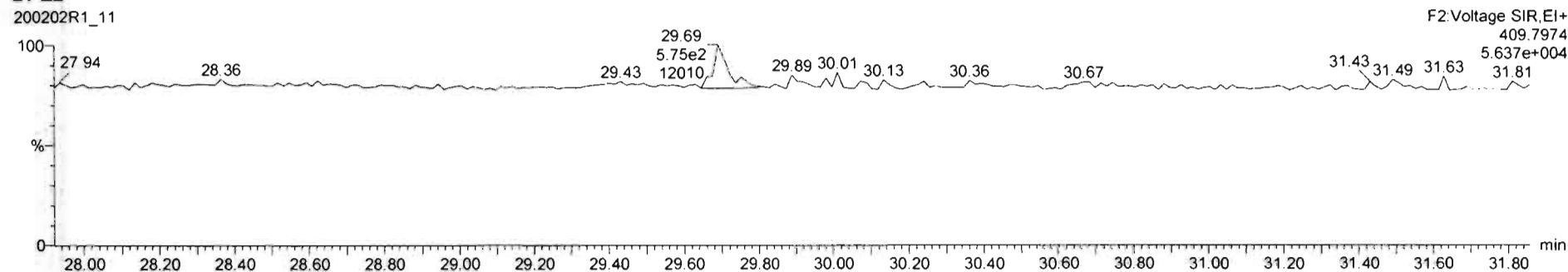
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

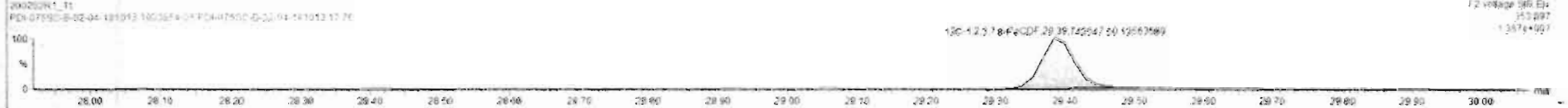
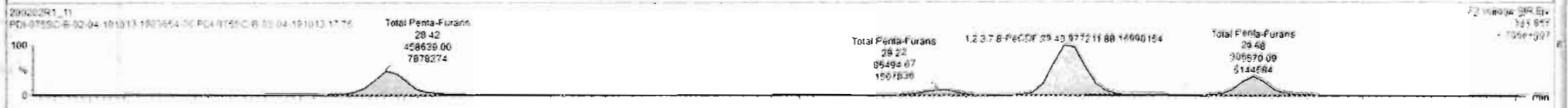


DPE2



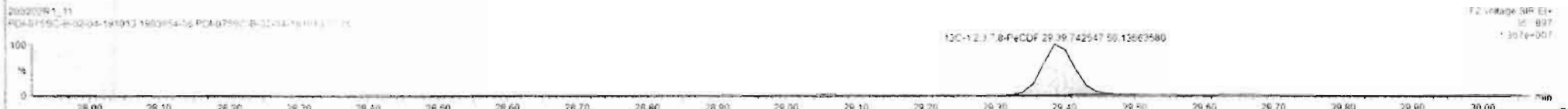
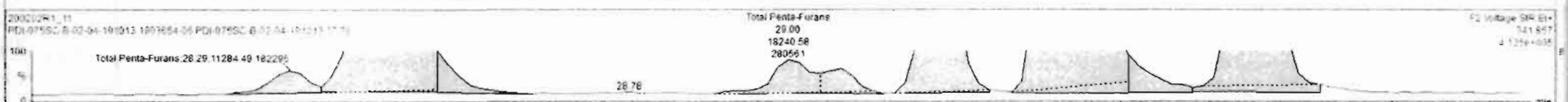
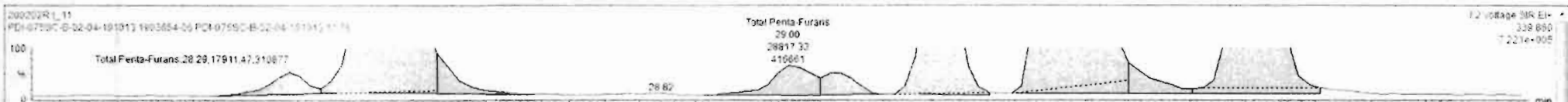
#1	#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
45	45	Total Penta-Furans		0.00e0				0.9074	29.27		NO	0.000		714		NO

#1	#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	45	Total Penta-Furans	28.26	1.791e4	1.126e4	1.59	NO	3.5951	3.5951
2	45	Total Penta-Furans	28.42	6.956e5	4.586e5	1.53	NO	142.63	142.63
3	45	Total Penta-Furans	28.50	1.598e4	1.105e4	1.53	NO	3.4553	3.4553
4	45	Total Penta-Furans	29.00	2.382e4	1.795e4	1.60	NO	5.7597	5.7597
5	45	Total Penta-Furans	29.08	1.660e4	9.780e3	1.70	NO	3.2458	3.2458
6	45	Total Penta-Furans	29.22	1.330e5	8.649e4	1.54	NO	27.022	27.022
7	9	1,2,3,7,8-PeCDF	29.40	1.500e6	9.772e5	1.54	NO	284.92	284.92
8	45	Total Penta-Furans	29.46	1.754e4	1.232e4	1.42	NO	3.6782	3.6782
9	45	Total Penta-Furans	29.68	4.885e5	3.066e5	1.52	NO	95.438	95.438
10	45	Total Penta-Furans	30.10	1.489e3	1.164e3	1.20	YES	0.30348	0.00000
11	45	Total Penta-Furans	30.27	5.536e3	3.183e3	1.77	NO	1.0655	1.0655
12	10	2,3,4,7,8-PeCDF	30.38	6.517e5	4.283e5	1.52	NO	136.43	136.43
13	45	Total Penta-Furans	30.67	1.630e3	8.658e2	1.66	YES	0.27161	0.00000
14	45	Total Penta-Furans	31.21	1.151e4	1.996e4	1.58	NO	8.3388	4.3388



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
45	Total Penta-Furans		0.00e0				0.9074	29.27		NO	0.000		714		NO

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.29	1.791e4	1.126e4	1.59	NO	3.5951	3.5951
2	Total Penta-Furans	28.42	6.996e5	4.566e5	1.53	NO	142.63	142.63
3	Total Penta-Furans	28.50	1.698e4	1.108e4	1.53	NO	3.4553	3.4553
4	Total Penta-Furans	29.00	2.882e4	1.824e4	1.58	NO	5.7946	5.7946
5	Total Penta-Furans	29.08	1.660e4	1.064e4	1.56	NO	3.3547	3.3547
6	Total Penta-Furans	29.22	1.330e5	8.649e4	1.54	NO	27.022	27.022
7	1,2,3,7,8-PeCDF	29.40	1.500e6	9.772e5	1.54	NO	284.92	284.92
8	Total Penta-Furans	29.45	1.754e4	1.232e4	1.42	NO	3.6762	3.6762
9	Total Penta-Furans	29.68	4.685e5	3.066e5	1.53	NO	95.438	95.438
10	Total Penta-Furans	30.18	1.498e3	1.154e3	1.29	YES	0.20348	0.00000
11	Total Penta-Furans	30.27	5.636e3	3.183e3	1.77	NO	1.0859	1.0859
12	1,2,3,7,8-PeCDF	30.38	6.517e5	4.263e5	1.52	NO	136.43	136.43
13	Total Penta-Furans	30.67	1.630e3	8.856e2	1.86	YES	0.27181	0.00000
14	Total Penta-Furans	31.21	3.151e4	1.996e4	1.58	NO	6.3386	6.3386



200202R1_11 - 1903654-06 PDI-075SC-B-02-04-191013 17 76 - PDI-075SC-B-02-04-191013

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
45	Total Penta-Furans		0.00e0				0.9074	29.27		NO	0.000		717		NO

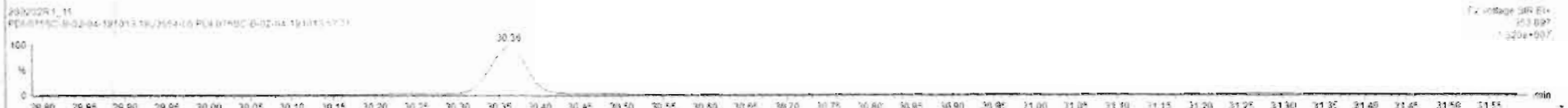
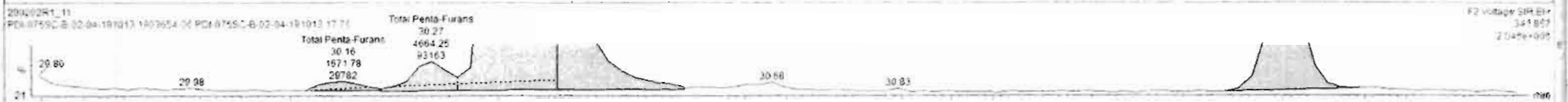
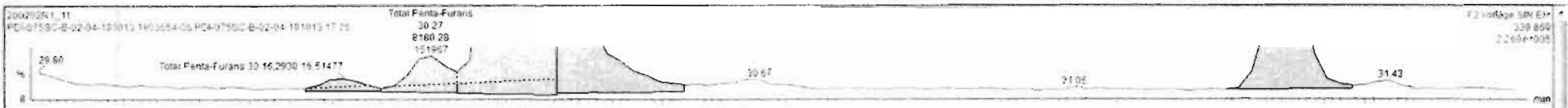
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.29	1.791e4	1.128e4	1.59	NO	3.5951	3.5951
2	Total Penta-Furans	28.42	6.996e5	4.566e5	1.53	NO	142.63	142.63
3	Total Penta-Furans	28.50	1.698e4	1.105e4	1.53	NO	3.4853	3.4853
4	Total Penta-Furans	29.00	2.882e4	1.824e4	1.58	NO	5.7546	5.7546
5	Total Penta-Furans	29.08	1.660e4	1.064e4	1.56	NO	3.3547	3.3547
6	Total Penta-Furans	29.22	1.330e5	8.649e4	1.54	NO	27.022	27.022
7	1,2,3,4,7,8-PeCDF	29.40	1.500e6	9.772e5	1.54	NO	284.92	284.92
8	Total Penta-Furans	29.45	1.754e4	1.232e4	1.42	NO	2.6762	3.6762
9	Total Penta-Furans	29.68	4.685e5	3.066e5	1.53	NO	95.438	95.438
10	Total Penta-Furans	30.16	2.930e3	1.672e3	1.75	NO	0.58667	0.58667
11	Total Penta-Furans	30.27	6.180e3	4.664e3	1.75	NO	1.5816	1.5816
12	1,2,3,4,7,8-PeCDF	30.38	5.886e5	3.801e5	1.52	NO	123.38	123.38
13	Total Penta-Furans	30.42	7.814e4	4.788e4	1.63	NO	15.520	15.520
14	Total Penta-Furans	31.31	3.151e4	1.996e4	1.58	NO	4.2386	6.2386



200202R1_11 - 1903654-06 PDI-075SC-B-02-04-191013 17 76 - PDI-075SC-B-02-04-191013

#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
45	Total Penta-Furans		0.00e0				0.9974	29.27		NO	0.000		717		NO

#	Name	RT	int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.29	1.791e4	1.128e4	1.59	NO	3.5951	3.5951
2	Total Penta-Furans	28.42	6.896e5	4.596e5	1.53	NO	142.63	142.63
3	Total Penta-Furans	28.50	1.698e4	1.108e4	1.63	NO	3.4563	3.4563
4	Total Penta-Furans	29.00	2.882e4	1.824e4	1.58	NO	5.7946	5.7946
5	Total Penta-Furans	29.08	1.660e4	1.064e4	1.56	NO	3.3547	3.3547
6	Total Penta-Furans	29.22	1.330e5	8.649e4	1.54	NO	27.022	27.022
7	1,2,3,7,8-PeCDF	29.40	1.500e6	9.772e5	1.54	NO	284.92	284.92
8	Total Penta-Furans	29.45	1.754e4	1.232e4	1.42	NO	3.6762	3.6762
9	Total Penta-Furans	29.68	4.685e5	3.066e5	1.52	NO	95.438	95.438
10	Total Penta-Furans	30.16	2.930e3	1.672e3	1.75	NO	0.56667	0.56667
11	Total Penta-Furans	30.27	6.180e2	4.664e2	1.75	NO	1.5816	1.5816
12	1,2,3,4,7,8-PeCDF	30.38	5.886e5	3.861e5	1.52	NO	123.39	123.39
13	Total Penta-Furans	30.42	7.814e4	4.759e4	1.62	NO	15.520	15.520
14	Total Penta-Furans	31.21	3.151e4	1.996e4	1.58	NO	4.3368	4.3368

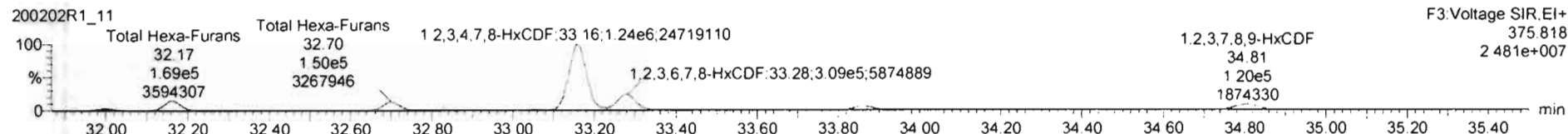


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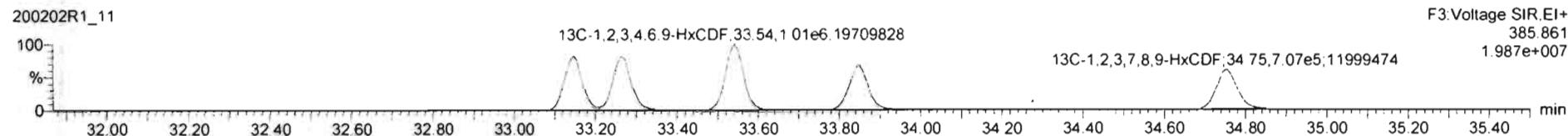
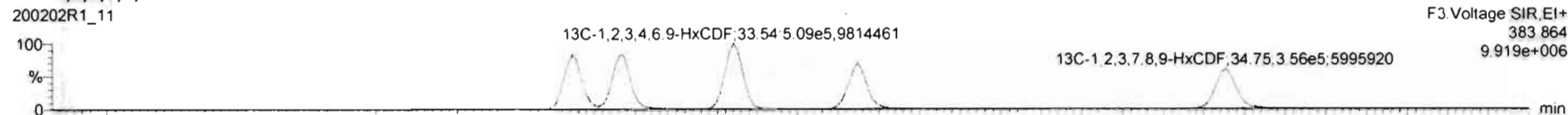
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Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

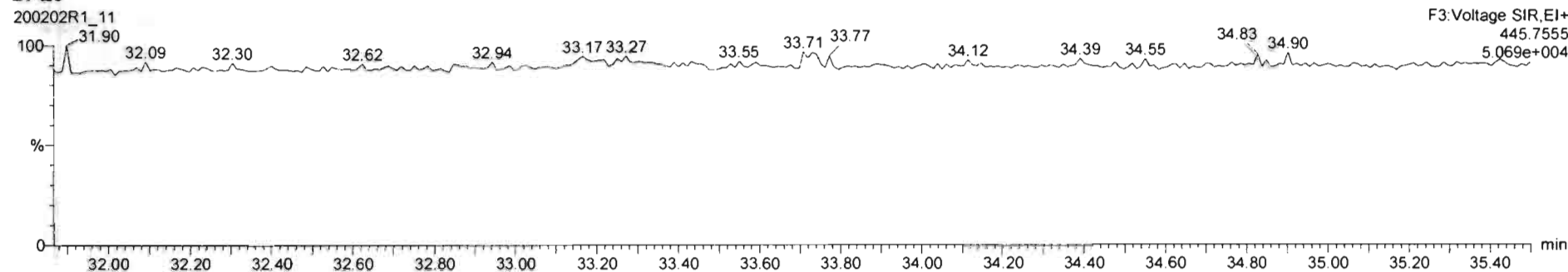
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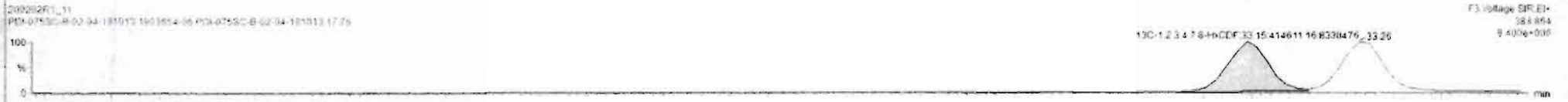
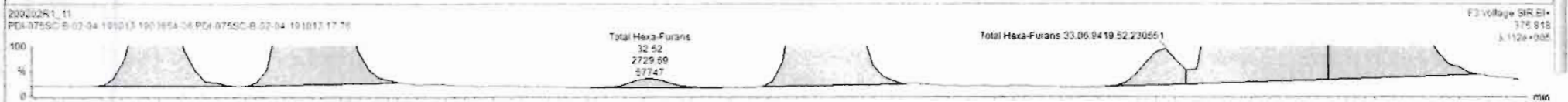
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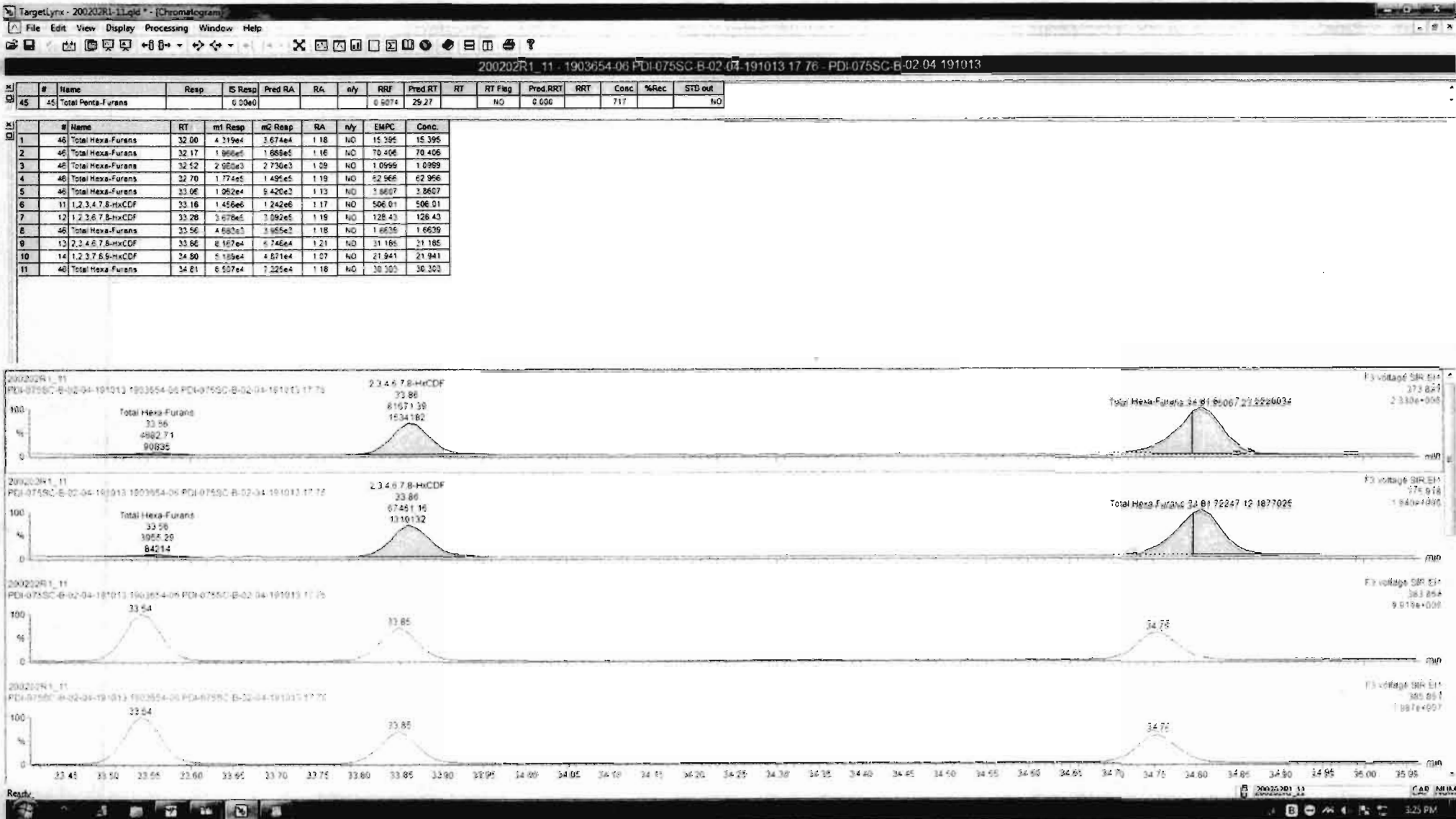


200202R1_11 - 1903654-06 PDI-075SC-B-02-04 191013 17 76 - PDI-075SC-B-02-04-191013

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
45	Total Penta-Furans		0.00e0				0.5074	29.27		NO	0.000		717		NO

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	32.00	4.319e4	3.674e4	1.18	NO	15.395	15.395
2	46 Total Hexa-Furans	32.17	1.966e5	1.669e5	1.18	NO	70.406	70.406
3	46 Total Hexa-Furans	32.52	2.580e3	2.730e3	1.09	NO	1.0999	1.0999
4	46 Total Hexa-Furans	32.70	1.774e5	1.495e5	1.19	NO	82.966	82.966
5	46 Total Hexa-Furans	33.05	1.052e4	9.420e3	1.13	NO	3.8607	3.8607
6	11 1,2,3,4,7,8-HxCDF	33.16	1.458e6	1.242e6	1.17	NO	506.01	506.01
7	12 1,2,3,6,7,8-HxCDF	33.26	3.678e5	3.092e5	1.19	NO	128.43	128.43
8	46 Total Hexa-Furans	33.56	4.683e3	3.955e3	1.18	NO	1.6639	1.6639
9	13 2,3,4,6,7,8-HxCDF	33.66	8.167e4	6.746e4	1.21	NO	31.185	31.185
10	14 1,2,3,7,8,9-HxCDF	34.51	1.431e5	1.205e5	1.19	NO	57.391	57.391



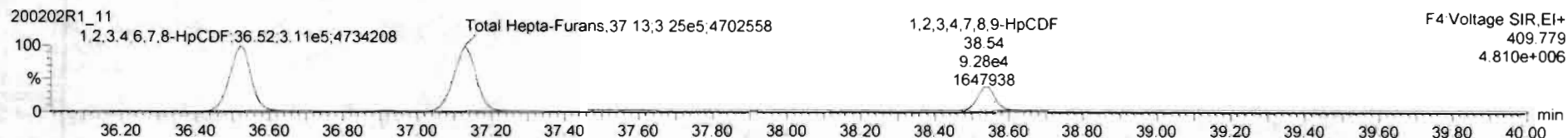
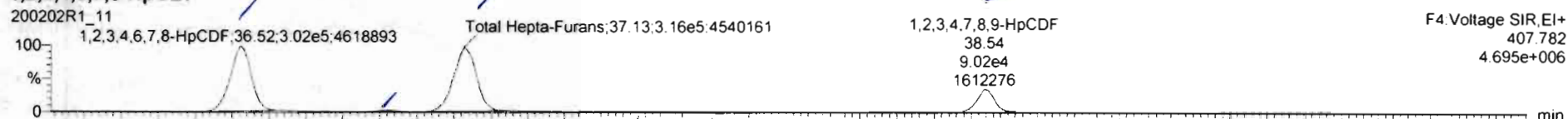


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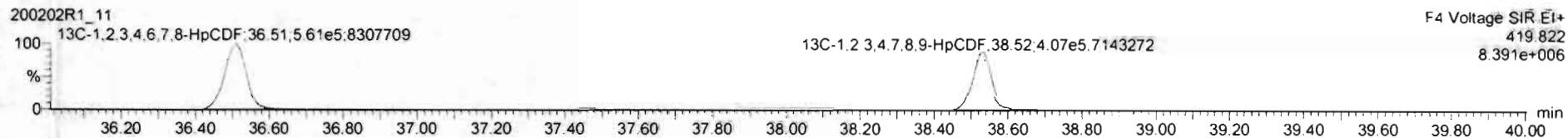
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Name: 200202R1_11, Date: 02-Feb-2020, Time: 18:13:46, ID: 1903654-06 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

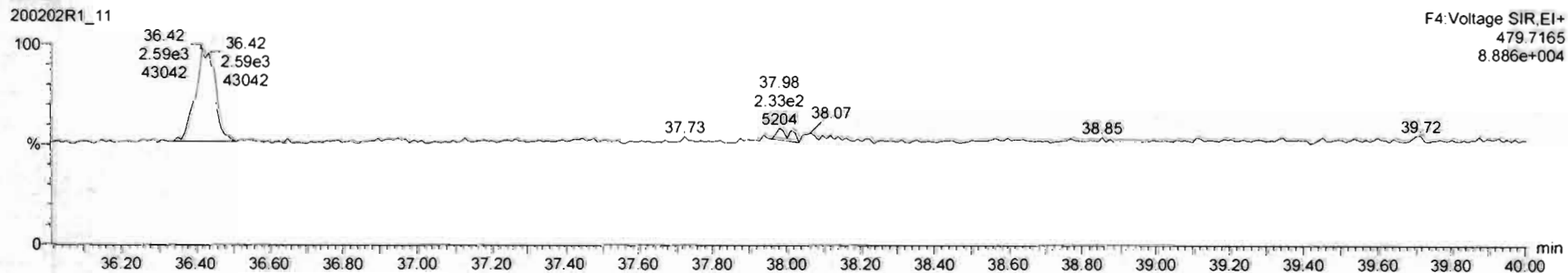
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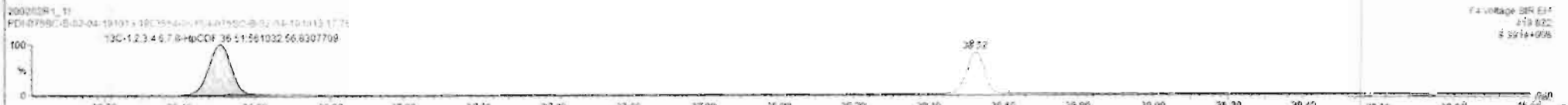
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200202R1_11 - 1903654-06 PDI-075SC-B-02-04-191013 17 76 - PDI-075SC-B-02-04-191013

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
47	Total Hepta-Furans		0.0000				0.8511	37.63		NO	0.000		461		NO

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.52	3.016e5	3.115e5	0.97	NO	177.75	177.75
2	Total Hepta-Furans	36.92	5.107e3	5.232e3	0.98	NO	2.4804	3.4804
3	Total Hepta-Furans	37.12	3.160e5	3.246e5	0.97	NO	215.71	215.71
4	1,2,3,4,7,8-HpCDF	36.53	9.915e4	9.277e4	0.97	NO	63.760	62.760

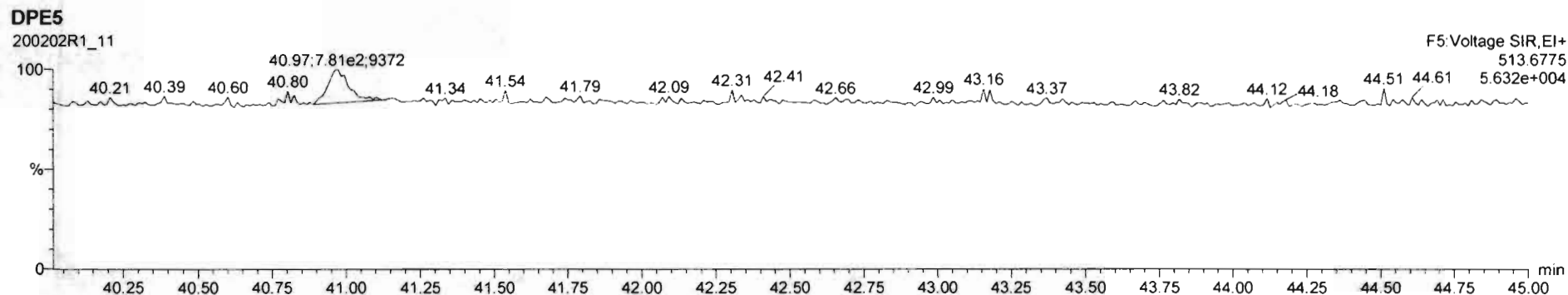
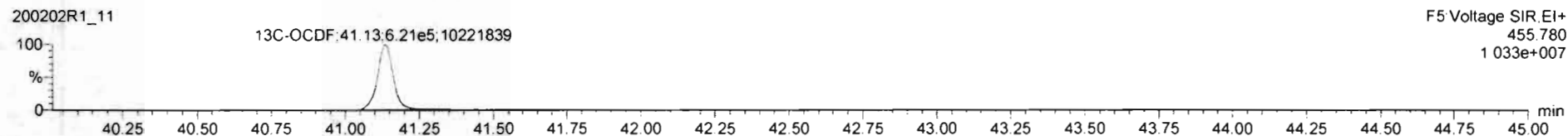
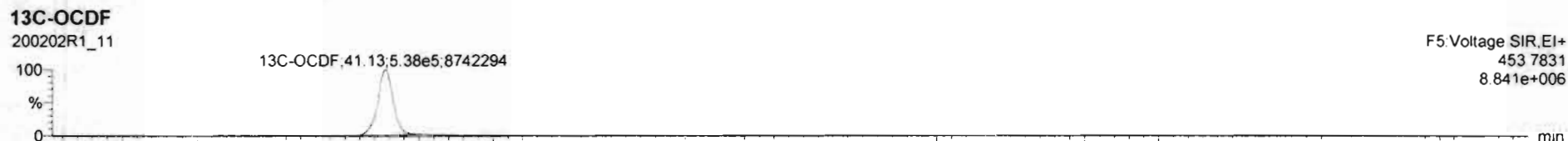
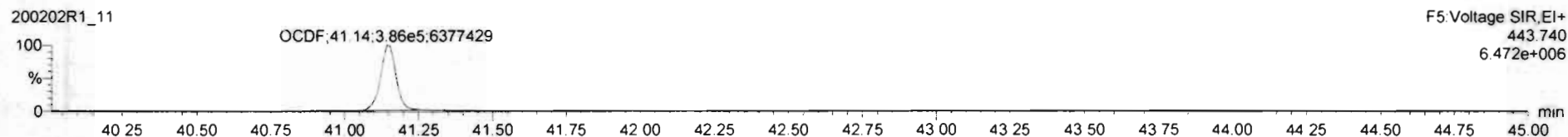
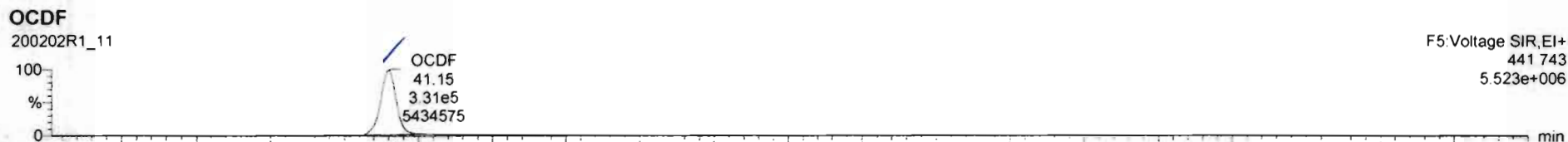


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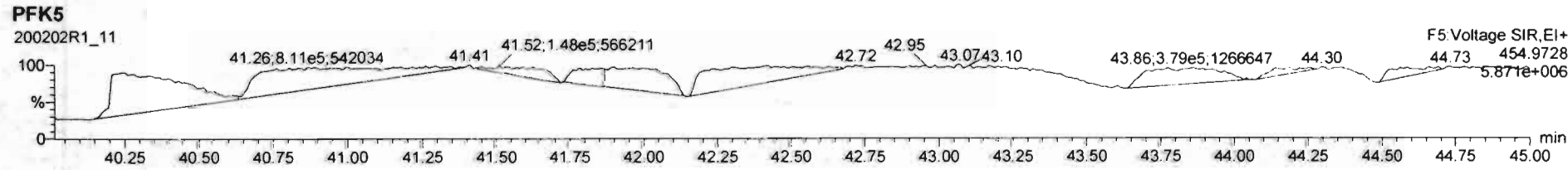
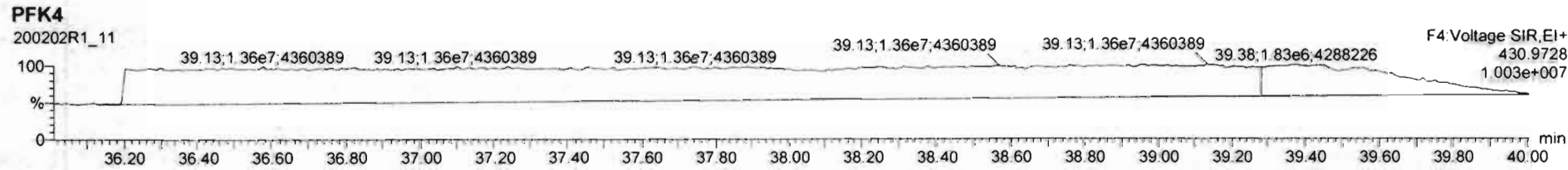
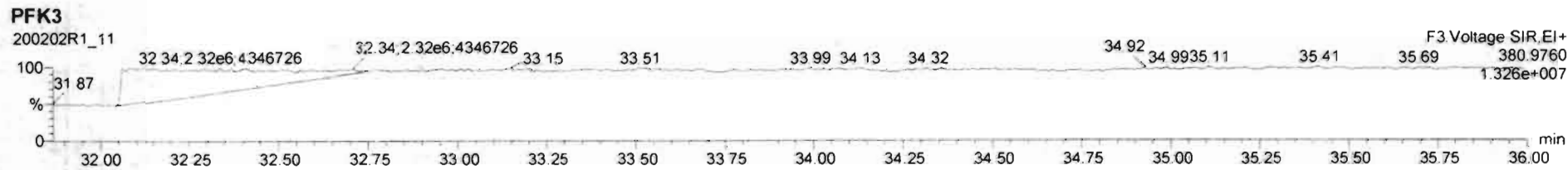
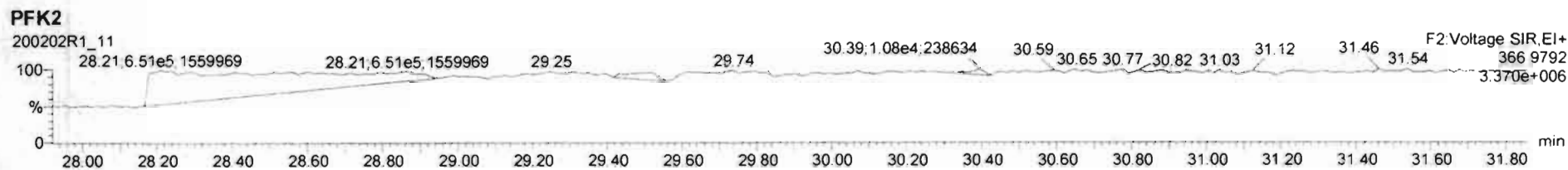
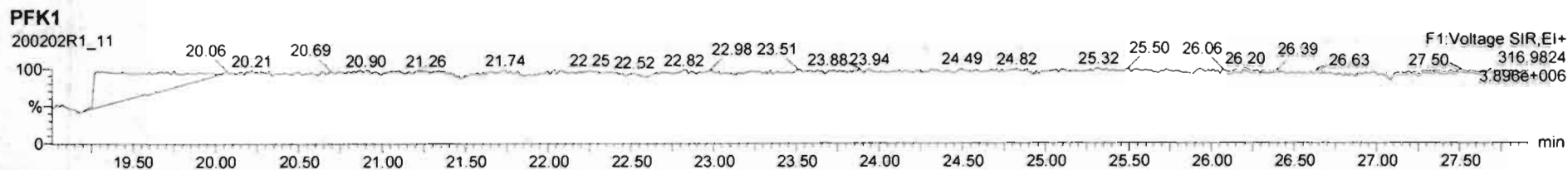
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C703/13/2020

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.62e3	0.62	YES	0.988	10.091	25.766	25.77	1.001	1.001	0.52258		0.102	0.469
2	2 1,2,3,7,8-PeCDD	6.43e3	0.56	NO	0.972	10.091	30.673	30.67	1.001	1.000	0.99298		0.128	0.993
3	3 1,2,3,4,7,8-HxCDD	9.83e3	1.30	NO	1.07	10.091	34.008	34.02	1.000	1.001	1.8432		0.345	1.84
4	4 1,2,3,6,7,8-HxCDD	9.12e4	1.24	NO	0.921	10.091	34.104	34.12	1.000	1.000	16.081		0.338	16.1
5	5 1,2,3,7,8,9-HxCDD	2.86e4	1.26	NO	0.918	10.091	34.415	34.40	1.001	1.001	5.2559		0.358	5.26
6	6 1,2,3,4,6,7,8-HpCDD	4.47e6	1.00	NO	0.923	10.091	37.949	37.95	1.000	1.000	1055.6		1.72	1060
7	7 OCDD	2.52e7	0.88	NO	0.975	10.091	40.974	40.99	1.000	1.000	6781.36*		0.732	6780
8	8 2,3,7,8-TCDF	8.79e4	0.75	NO	0.802	10.091	24.877	24.87	1.001	1.001	9.5802 (8.83)		0.135	9.58
9	9 1,2,3,7,8-PeCDF	9.36e4	1.58	NO	0.907	10.091	29.391	29.39	1.001	1.001	10.540		0.105	10.5
10	10 2,3,4,7,8-PeCDF	3.96e4	1.45	NO	0.952	10.091	30.357	30.36	1.000	1.000	4.4875		0.100	4.49
11	11 1,2,3,4,7,8-HxCDF	7.81e4	1.20	NO	0.862	10.091	33.135	33.15	1.000	1.000	13.649		0.145	13.6
12	12 1,2,3,6,7,8-HxCDF	1.96e4	1.18	NO	0.841	10.091	33.262	33.26	1.000	1.000	3.4067		0.146	3.41
13	13 2,3,4,6,7,8-HxCDF	8.98e3	1.27	NO	0.898	10.091	33.872	33.85	1.001	1.000	1.6059		0.155	1.61
14	14 1,2,3,7,8,9-HxCDF	4.17e3	1.14	NO	0.858	10.091	34.733	34.78	1.000	1.001	0.83458		0.199	0.835
15	15 1,2,3,4,6,7,8-HpCDF	1.68e5	0.99	NO	0.851	10.091	36.538	36.51	1.001	1.000	42.419		0.312	42.4
16	16 1,2,3,4,7,8,9-HpCDF	1.60e4	1.01	NO	0.980	10.091	38.524	38.53	1.000	1.000	4.7710		0.315	4.77
17	17 OCDF	8.35e5	0.82	NO	0.806	10.091	41.166	41.18	1.000	1.000	260.43		0.290	260
18	18 13C-2,3,7,8-TCDD	1.74e6	0.78	NO	1.20	10.091	25.737	25.74	1.026	1.026	157.32	79.4	0.324	
19	19 13C-1,2,3,7,8-PeCDD	1.32e6	0.62	NO	0.967	10.091	30.487	30.65	1.215	1.222	147.89	74.6	0.189	
20	20 13C-1,2,3,4,7,8-HxCDD	9.87e5	1.25	NO	0.874	10.091	33.998	34.00	1.014	1.014	130.53	65.9	0.256	
21	21 13C-1,2,3,6,7,8-HxCDD	1.22e6	1.26	NO	1.05	10.091	34.099	34.10	1.017	1.017	134.88	68.1	0.214	
22	22 13C-1,2,3,7,8,9-HxCDD	1.17e6	1.24	NO	0.974	10.091	34.401	34.38	1.026	1.025	139.16	70.2	0.229	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.09e5	1.04	NO	0.747	10.091	37.955	37.94	1.132	1.131	140.66	71.0	0.380	
24	24 13C-OCDD	1.51e6	0.89	NO	0.707	10.091	40.838	40.97	1.218	1.222	247.14	62.3	0.200	
25	25 13C-2,3,7,8-TCDF	2.27e6	0.78	NO	1.07	10.091	24.916	24.85	0.993	0.990	159.24	80.3	0.419	
26	26 13C-1,2,3,7,8-PeCDF	1.94e6	1.56	NO	1.00	10.091	29.257	29.37	1.166	1.170	144.81	73.1	0.325	
27	27 13C-2,3,4,7,8-PeCDF	1.84e6	1.58	NO	0.962	10.091	30.211	30.35	1.204	1.209	142.77	72.0	0.338	
28	28 13C-1,2,3,4,7,8-HxCDF	1.32e6	0.51	NO	1.05	10.091	33.127	33.13	0.988	0.988	144.97	73.1	0.247	
29	29 13C-1,2,3,6,7,8-HxCDF	1.35e6	0.51	NO	1.19	10.091	33.227	33.25	0.991	0.992	131.47	66.3	0.218	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	10.091	33.834	33.84	1.009	1.009	133.72	67.5	0.244	
31	31 13C-1,2,3,7,8,9-HxCDF	1.15e6	0.51	NO	0.922	10.091	34.736	34.73	1.036	1.036	144.61	73.0	0.282	

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Name: 200202R1_13, Date: 02-Feb-2020, Time: 19:47:53, ID: 1903654-07 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.23e5	0.43	NO	0.767	10.091	36.480	36.50	1.088	1.089	138.99	70.1	0.286	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.79e5	0.44	NO	0.552	10.091	38.491	38.52	1.148	1.149	142.18	71.7	0.398	
34	34 13C-OCDF	1.58e6	0.88	NO	0.789	10.091	41.073	41.17	1.225	1.228	230.86	58.2	0.222	
35	35 37Cl-2,3,7,8-TCDD	7.18e5			1.18	10.091	25.769	25.75	1.027	1.026	66.117	83.4	0.103	
36	36 13C-1,2,3,4-TCDD	1.83e6	0.78	NO	1.00	10.091	25.080	25.09	1.000	1.000	198.19	100	0.388	
37	37 13C-1,2,3,4-TCDF	2.65e6	0.79	NO	1.00	10.091	23.420	23.43	1.000	1.000	198.19	100	0.446	
38	38 13C-1,2,3,4,6,9-HxCDF	1.71e6	0.51	NO	1.00	10.091	33.520	33.53	1.000	1.000	198.19	100	0.260	
39	39 Total Tetra-Dioxins				0.988	10.091	24.620		0.000		12.835		0.102	13.3
40	40 Total Penta-Dioxins				0.972	10.091	29.960		0.000		27.183		0.128	27.2
41	41 Total Hexa-Dioxins				0.921	10.091	33.635		0.000		246.25		0.363	246
42	42 Total Hepta-Dioxins				0.923	10.091	37.640		0.000		2461.5		1.72	2460
43	43 Total Tetra-Furans				0.802	10.091	23.610		0.000		33.994		0.135	35.4
44	44 1st Func. Penta-Furans				0.907	10.091	27.090		0.000		7.6424		0.0401	7.64
45	45 Total Penta-Furans				0.907	10.091	29.275		0.000		34.875		0.105	36.6
46	46 Total Hexa-Furans				0.898	10.091	33.555		0.000		55.353		0.154	55.4
47	47 Total Hepta-Furans				0.851	10.091	37.835		0.000		230.49		0.333	230

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Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_13, Date: 02-Feb-2020, Time: 19:47:53, ID: 1903654-07 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.81	5.526e4	8.245e4	5.515e3	7.232e3	0.76	NO	1.275e4	1.4694	1.4694	0.102
2	Total Tetra-Dioxins	22.23	3.184e4	4.371e4	3.150e3	3.765e3	0.84	NO	6.915e3	0.79712	0.79712	0.102
3	Total Tetra-Dioxins	22.71	5.525e4	6.966e4	4.484e3	5.197e3	0.86	NO	9.681e3	1.1159	1.1159	0.102
4	Total Tetra-Dioxins	23.59	1.869e4	2.212e4	1.412e3	1.880e3	0.75	NO	3.293e3	0.37956	0.37956	0.102
5	Total Tetra-Dioxins	23.85	7.047e4	8.273e4	6.258e3	7.521e3	0.83	NO	1.378e4	1.5883	1.5883	0.102
6	Total Tetra-Dioxins	23.91	2.971e4	3.793e4	1.711e3	2.103e3	0.81	NO	3.814e3	0.43965	0.43965	0.102
7	Total Tetra-Dioxins	24.07	5.521e4	7.173e4	4.086e3	4.829e3	0.85	NO	8.914e3	1.0276	1.0276	0.102
8	Total Tetra-Dioxins	24.27	2.812e4	3.741e4	2.211e3	2.725e3	0.81	NO	4.936e3	0.56896	0.56896	0.102
9	Total Tetra-Dioxins	24.52	3.193e4	3.456e4	2.225e3	2.531e3	0.88	NO	4.757e3	0.54831	0.54831	0.102
10	Total Tetra-Dioxins	24.69	4.117e4	5.767e4	2.986e3	3.973e3	0.75	NO	6.959e3	0.80220	0.80220	0.102
11	Total Tetra-Dioxins	25.05	4.362e4	5.220e4	3.520e3	4.244e3	0.83	NO	7.764e3	0.89499	0.89499	0.102
12	Total Tetra-Dioxins	25.21	2.188e4	2.786e4	1.406e3	1.859e3	0.76	NO	3.265e3	0.37639	0.37639	0.102
13	Total Tetra-Dioxins	25.48	3.422e4	4.417e4	3.235e3	4.153e3	0.78	NO	7.388e3	0.85166	0.85166	0.102
14	Total Tetra-Dioxins	25.60	2.433e4	3.479e4	1.893e3	2.679e3	0.71	NO	4.572e3	0.52702	0.52702	0.102
15	2,3,7,8-TCDD	25.77	2.470e4	4.607e4	1.769e3	2.851e3	0.62	YES	4.620e3	0.00000	0.46868	0.102
16	Total Tetra-Dioxins	26.07	4.607e4	6.119e4	3.163e3	3.965e3	0.80	NO	7.128e3	0.82164	0.82164	0.102
17	Total Tetra-Dioxins	26.18	1.403e4	1.718e4	8.238e2	1.116e3	0.74	NO	1.939e3	0.22356	0.22356	0.102
18	Total Tetra-Dioxins	26.69	2.450e4	3.192e4	1.615e3	1.875e3	0.86	NO	3.491e3	0.40240	0.40240	0.102

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.45	2.100e5	3.385e5	1.638e4	2.617e4	0.63	NO	4.254e4	6.5735	6.5735	0.128
2	Total Penta-Dioxins	28.94	1.473e5	2.457e5	8.237e3	1.289e4	0.64	NO	2.113e4	3.2646	3.2646	0.128
3	Total Penta-Dioxins	29.43	9.695e4	1.542e5	5.666e3	8.409e3	0.67	NO	1.407e4	2.1747	2.1747	0.128
4	Total Penta-Dioxins	29.60	1.184e5	1.722e5	5.338e3	8.233e3	0.65	NO	1.357e4	2.0968	2.0968	0.128
5	Total Penta-Dioxins	29.69	6.620e4	1.169e5	4.029e3	6.203e3	0.65	NO	1.023e4	1.5809	1.5809	0.128
6	Total Penta-Dioxins	29.90	1.989e5	3.274e5	8.074e3	1.314e4	0.61	NO	2.122e4	3.2786	3.2786	0.128
7	Total Penta-Dioxins	29.93	1.885e5	3.103e5	9.398e3	1.492e4	0.63	NO	2.432e4	3.7577	3.7577	0.128
8	Total Penta-Dioxins	30.24	3.686e4	6.045e4	2.041e3	3.180e3	0.64	NO	5.220e3	0.80661	0.80661	0.128
9	1,2,3,7,8-PeCDD	30.67	4.482e4	9.018e4	2.297e3	4.129e3	0.56	NO	6.427e3	0.99298	0.99298	0.128
10	Total Penta-Dioxins	30.74	7.270e4	1.164e5	3.814e3	5.903e3	0.65	NO	9.717e3	1.5014	1.5014	0.128
11	Total Penta-Dioxins	31.05	5.806e4	8.636e4	2.956e3	4.517e3	0.65	NO	7.473e3	1.1547	1.1547	0.128

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.53	6.392e6	5.139e6	3.054e5	2.499e5	1.22	NO	5.553e5	106.03	106.03	0.363
2	Total Hexa-Dioxins	33.08	6.152e5	4.984e5	3.158e4	2.583e4	1.22	NO	5.741e4	10.962	10.962	0.363
3	Total Hexa-Dioxins	33.34	3.890e6	3.194e6	2.695e5	2.205e5	1.22	NO	4.900e5	93.559	93.559	0.363
4	Total Hexa-Dioxins	33.44	2.890e5	2.568e5	1.722e4	1.392e4	1.24	NO	3.114e4	5.9458	5.9458	0.363
5	1,2,3,4,7,8-HxCDD	34.02	1.101e5	8.220e4	5.563e3	4.266e3	1.30	NO	9.829e3	1.8432	1.8432	0.345
6	1,2,3,6,7,8-HxCDD	34.12	8.880e5	7.004e5	5.043e4	4.079e4	1.24	NO	9.122e4	16.081	16.081	0.338
7	Total Hexa-Dioxins	34.31	3.319e5	2.780e5	1.878e4	1.565e4	1.20	NO	3.443e4	6.5733	6.5733	0.363
8	1,2,3,7,8,9-HxCDD	34.40	2.695e5	2.155e5	1.592e4	1.264e4	1.26	NO	2.857e4	5.2559	5.2559	0.358

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.90	4.020e7	3.944e7	2.994e6	2.961e6	1.01	NO	5.955e6	1405.9	1405.9	1.72
2	1,2,3,4,6,7,8-HpCDD	37.95	3.070e7	3.041e7	2.240e6	2.231e6	1.00	NO	4.471e6	1055.6	1055.6	1.72

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.72	9.759e3	1.633e4	8.266e2	1.208e3	0.68	NO	2.035e3	0.22167	0.22167	0.135
2	Total Tetra-Furans	20.24	1.981e4	2.880e4	1.919e3	2.358e3	0.81	NO	4.277e3	0.46594	0.46594	0.135
3	Total Tetra-Furans	20.84	8.712e4	1.204e5	8.320e3	1.073e4	0.78	NO	1.905e4	2.0749	2.0749	0.135
4	Total Tetra-Furans	21.39	2.396e4	3.293e4	4.015e3	5.039e3	0.80	NO	9.054e3	0.98629	0.98629	0.135
5	Total Tetra-Furans	21.69	1.213e4	1.695e4	6.323e2	8.278e2	0.76	NO	1.460e3	0.15905	0.15905	0.135
6	Total Tetra-Furans	21.78	1.275e5	1.701e5	1.391e4	1.783e4	0.78	NO	3.174e4	3.4576	3.4576	0.135
7	Total Tetra-Furans	22.28	7.285e4	9.713e4	6.828e3	9.203e3	0.74	NO	1.603e4	1.7463	1.7463	0.135
8	Total Tetra-Furans	22.61	1.950e4	3.042e4	1.597e3	2.424e3	0.66	NO	4.021e3	0.43802	0.43802	0.135
9	Total Tetra-Furans	23.07	6.415e3	1.010e4	4.872e2	7.193e2	0.68	NO	1.207e3	0.13143	0.13143	0.135
10	Total Tetra-Furans	23.19	8.950e3	8.759e3	7.682e2	7.829e2	0.98	YES	0.000e0	0.00000	0.15094	0.135
11	Total Tetra-Furans	23.34	5.837e4	8.381e4	4.783e3	6.685e3	0.72	NO	1.147e4	1.2491	1.2491	0.135
12	Total Tetra-Furans	23.43	7.033e4	8.270e4	5.543e3	7.128e3	0.78	NO	1.267e4	1.3803	1.3803	0.135
13	Total Tetra-Furans	23.94	4.878e5	6.604e5	3.838e4	5.186e4	0.74	NO	9.024e4	9.8297	9.8297	0.135
14	Total Tetra-Furans	24.22	2.043e4	2.809e4	1.533e3	2.173e3	0.71	NO	3.706e3	0.40372	0.40372	0.135
15	Total Tetra-Furans	24.64	1.535e4	1.837e4	7.155e2	8.841e2	0.81	NO	1.600e3	0.17424	0.17424	0.135
16	Total Tetra-Furans	24.76	6.787e4	9.469e4	4.787e3	6.225e3	0.77	NO	1.101e4	1.1995	1.1995	0.135
17	2,3,7,8-TCDF	24.87	5.214e5	6.889e5	3.763e4	5.032e4	0.75	NO	8.795e4	9.5802	9.5802	0.135
18	Total Tetra-Furans	25.23	2.820e4	4.065e4	1.908e3	2.649e3	0.72	NO	4.557e3	0.49636	0.49636	0.135
19	Total Tetra-Furans	26.84	1.001e5	9.243e4	6.958e3	6.605e3	1.05	YES	0.000e0	0.00000	1.2735	0.135

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.84	6.402e5	3.903e5	4.021e4	2.586e4	1.55	NO	6.606e4	7.6424	7.6424	0.0401

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.26	4.365e4	2.110e4	3.261e3	1.938e3	1.68	NO	5.199e3	0.60142	0.60142	0.105
2	Total Penta-Furans	28.41	6.537e5	4.245e5	4.337e4	2.764e4	1.57	NO	7.101e4	8.2141	8.2141	0.105
3	Total Penta-Furans	28.99	1.201e5	8.963e4	7.256e3	5.280e3	1.37	NO	0.000e0	0.00000	1.4503	0.105
4	Total Penta-Furans	29.03	3.362e4	2.335e4	1.179e3	8.725e2	1.35	NO	0.000e0	0.00000	0.23732	0.105
5	Total Penta-Furans	29.20	1.554e5	1.081e5	8.714e3	5.798e3	1.50	NO	1.451e4	1.6788	1.6788	0.105
6	1,2,3,7,8-PeCDF	29.39	1.053e6	6.723e5	5.740e4	3.622e4	1.58	NO	9.362e4	10.540	10.540	0.105
7	Total Penta-Furans	29.66	5.193e5	3.194e5	2.632e4	1.745e4	1.51	NO	4.377e4	5.0636	5.0636	0.105
8	Total Penta-Furans	30.25	1.560e4	1.030e4	6.533e2	4.703e2	1.39	NO	1.124e3	0.12998	0.12998	0.105
9	2,3,4,7,8-PeCDF	30.36	6.037e5	4.072e5	2.343e4	1.613e4	1.45	NO	3.956e4	4.4875	4.4875	0.100
10	Total Penta-Furans	30.38	6.017e5	3.890e5	1.938e4	1.239e4	1.56	NO	3.177e4	3.6752	3.6752	0.105
11	Total Penta-Furans	31.29	5.279e4	3.104e4	2.583e3	1.605e3	1.61	NO	4.188e3	0.48445	0.48445	0.105

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.99	9.663e4	7.991e4	5.072e3	4.095e3	1.24	NO	9.167e3	1.5999	1.5999	0.154
2	Total Hexa-Furans	32.15	4.138e5	3.507e5	2.080e4	1.770e4	1.18	NO	3.850e4	6.7192	6.7192	0.154
3	Total Hexa-Furans	32.69	1.650e6	1.379e6	7.922e4	6.828e4	1.16	NO	1.475e5	25.744	25.744	0.154
4	1,2,3,4,7,8-HxCDF	33.15	7.758e5	6.703e5	4.258e4	3.557e4	1.20	NO	7.815e4	13.649	13.649	0.145
5	1,2,3,6,7,8-HxCDF	33.26	1.891e5	1.704e5	1.058e4	8.992e3	1.18	NO	1.957e4	3.4067	3.4067	0.146
6	Total Hexa-Furans	33.54	9.558e3	7.229e3	4.077e2	3.790e2	1.08	NO	7.867e2	0.13730	0.13730	0.154
7	Total Hexa-Furans	33.73	1.093e4	9.030e3	5.167e2	4.626e2	1.12	NO	9.793e2	0.17091	0.17091	0.154
8	2,3,4,6,7,8-HxCDF	33.85	8.983e4	7.530e4	5.017e3	3.961e3	1.27	NO	8.978e3	1.6059	1.6059	0.155
9	1,2,3,7,8,9-HxCDF	34.78	7.640e4	6.573e4	2.225e3	1.944e3	1.14	NO	4.169e3	0.83458	0.83458	0.199
10	Total Hexa-Furans	34.80	9.701e4	8.048e4	4.609e3	3.905e3	1.18	NO	8.515e3	1.4860	1.4860	0.154

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.51	1.131e6	1.133e6	8.379e4	8.426e4	0.99	NO	1.681e5	42.419	42.419	0.312
2	Total Hepta-Furans	36.92	2.979e4	2.560e4	1.832e3	1.896e3	0.97	NO	3.728e3	1.0839	1.0839	0.333
3	Total Hepta-Furans	37.12	4.127e6	4.270e6	3.100e5	3.167e5	0.98	NO	6.268e5	182.22	182.22	0.333
4	1,2,3,4,7,8,9-HpCDF	38.53	1.146e5	1.285e5	8.042e3	7.986e3	1.01	NO	1.603e4	4.7710	4.7710	0.315

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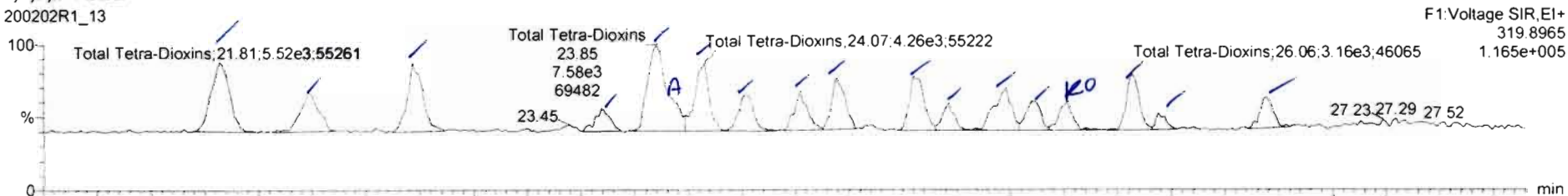
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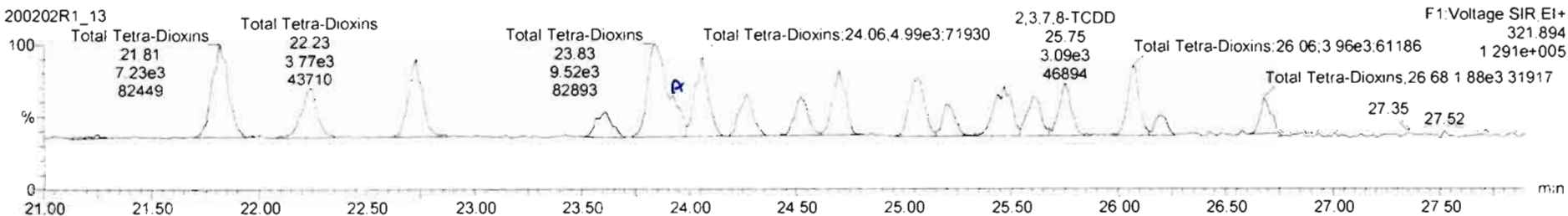
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2,3,7,8-TCDD

200202R1_13

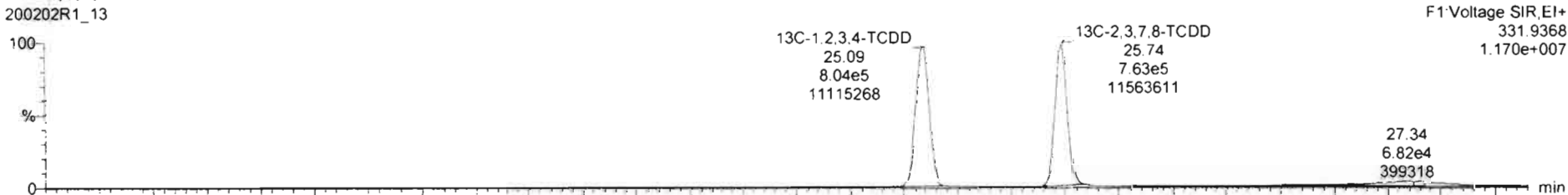


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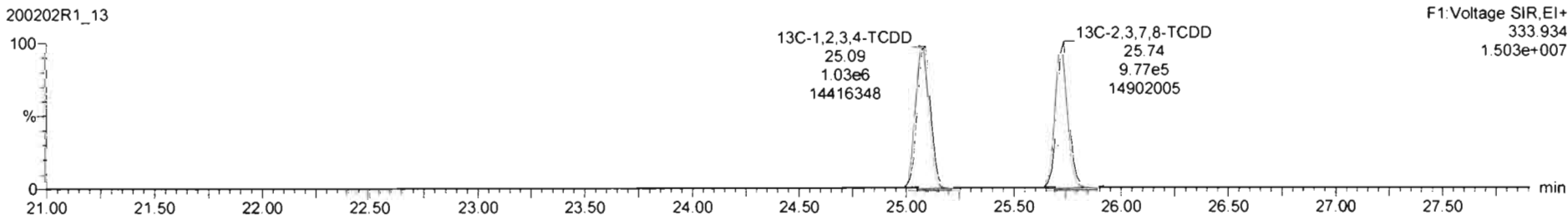


13C-2,3,7,8-TCDD

200202R1_13



200202R1_13



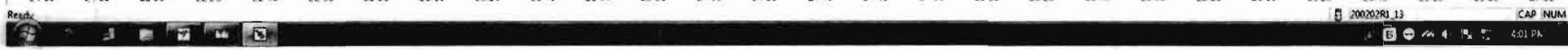
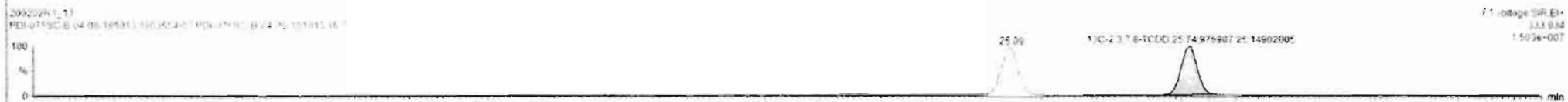
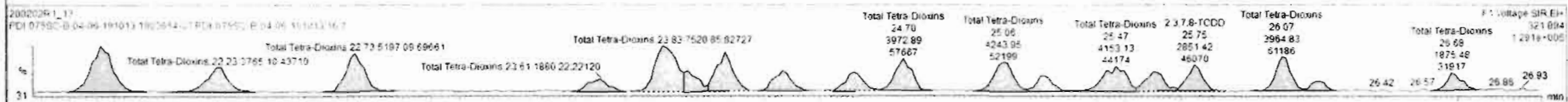
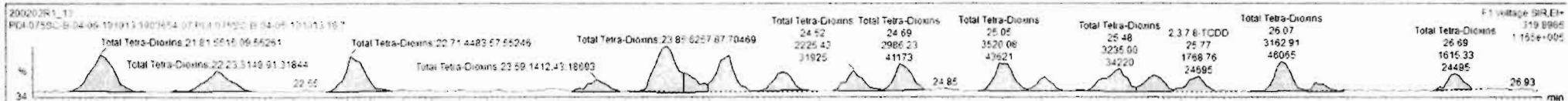
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200202R1_13 - 1902654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	n1y	RRF	w2Vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9861	10.091			12.8		0.102	13.3

Name	RT	m1 Resp	m2 Resp	RA	n1y	EMPC	Conc.	
1	Total Tetra-Dioxins	21.81	5.515e3	7.232e3	0.76	NO	1.4694	1.4694
2	Total Tetra-Dioxins	22.23	3.150e3	3.765e3	0.84	NO	0.79712	0.79712
3	Total Tetra-Dioxins	22.71	4.484e3	5.197e3	0.86	NO	1.1159	1.1159
4	Total Tetra-Dioxins	23.59	1.412e3	1.680e3	0.75	NO	0.37956	0.37956
5	Total Tetra-Dioxins	23.85	6.258e3	7.521e3	0.83	NO	1.5883	1.5883
6	Total Tetra-Dioxins	23.91	1.711e3	2.103e3	0.81	NO	0.43965	0.43965
7	Total Tetra-Dioxins	24.07	4.986e3	4.829e3	0.65	NO	1.0276	1.0276
8	Total Tetra-Dioxins	24.27	2.211e3	2.725e3	0.81	NO	0.56896	0.56896
9	Total Tetra-Dioxins	24.52	2.325e3	2.531e3	0.88	NO	0.54831	0.54831
10	Total Tetra-Dioxins	24.69	2.986e3	3.973e3	0.75	NO	0.80220	0.80220
11	Total Tetra-Dioxins	25.05	3.520e3	4.244e3	0.82	NO	0.69499	0.69499
12	Total Tetra-Dioxins	25.21	1.406e3	1.658e3	0.76	NO	0.37639	0.37639
13	Total Tetra-Dioxins	25.48	3.235e3	4.153e3	0.78	NO	0.65166	0.65166
14	Total Tetra-Dioxins	25.80	1.853e3	2.679e3	0.71	NO	0.52702	0.52702
15	2,3,7,8-TCDD	25.77	1.789e3	2.651e3	0.62	YES	0.46666	0.00000
16	Total Tetra-Dioxins	26.07	3.162e3	3.965e3	0.80	NO	0.82164	0.82164
17	Total Tetra-Dioxins	26.18	8.230e3	1.116e3	0.74	NO	0.22356	0.22356
18	Total Tetra-Dioxins	26.68	1.615e3	1.877e3	0.86	NO	0.40240	0.40240



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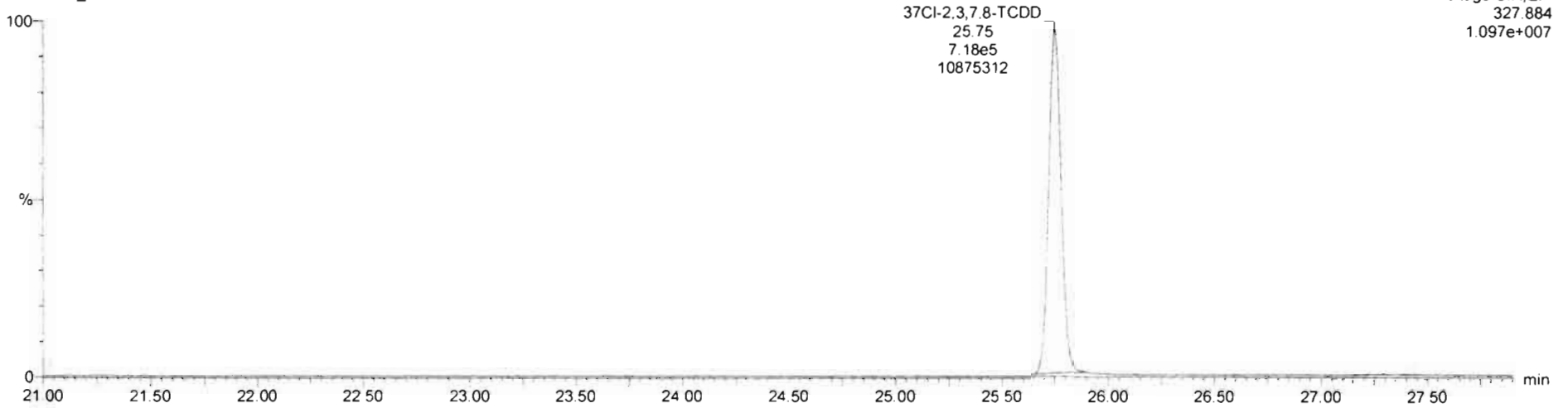
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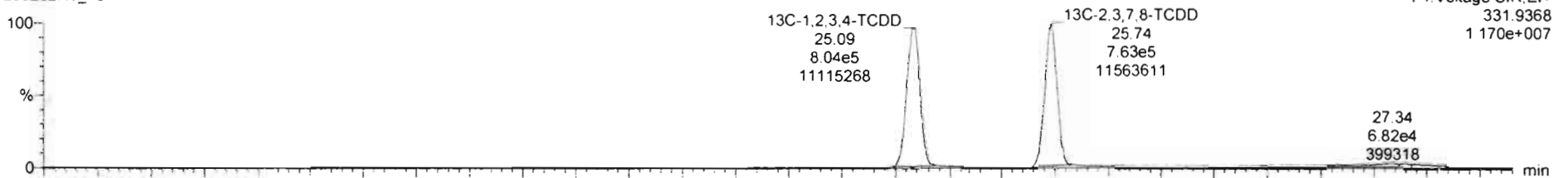
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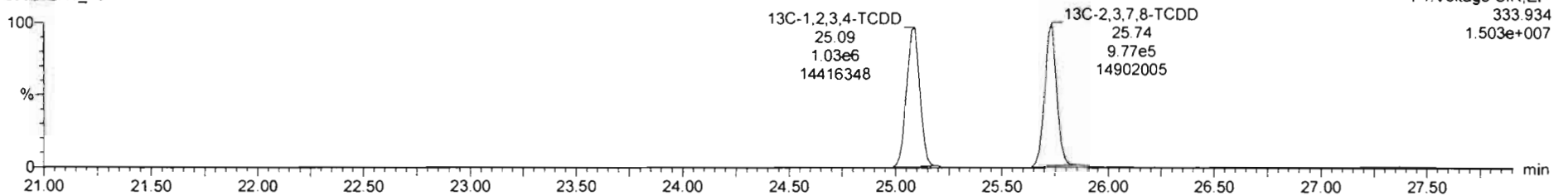


13C-1,2,3,4-TCDD

200202R1_13



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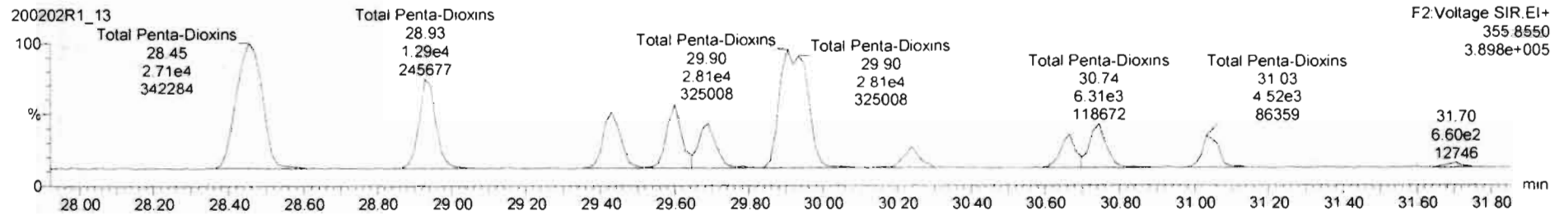
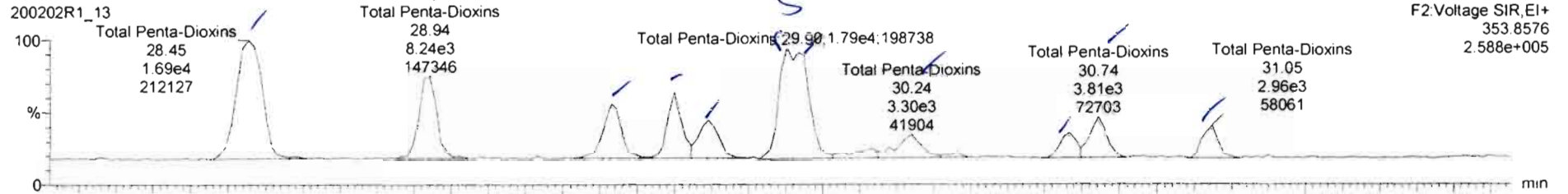


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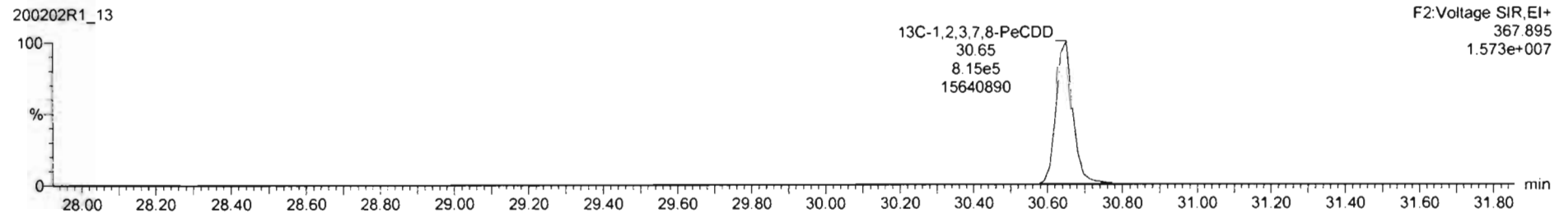
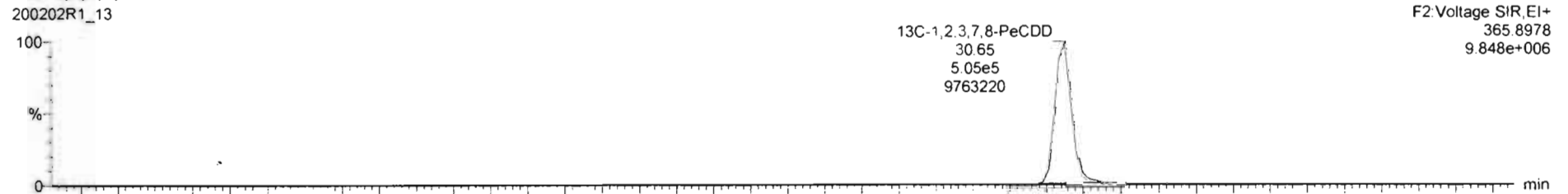
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1,2,3,7,8-PeCDD

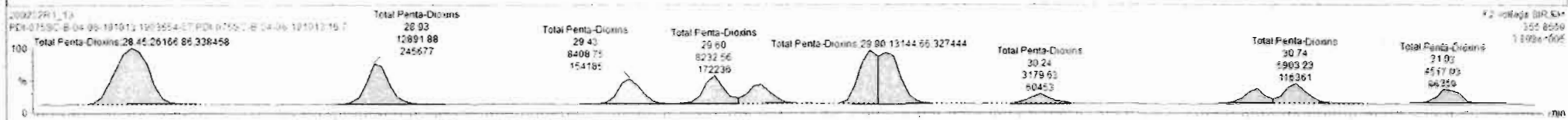
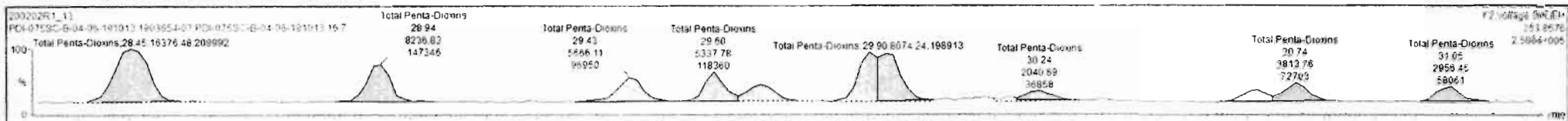


13C-1,2,3,7,8-PeCDD



Name	Resp	RA	ny	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5881	10.091			12.8		0.102	13.3

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Penta-Dioxins	28.45	1.638e4	2.617e4	0.63	NO	6.5735	6.5735E
2 Total Penta-Dioxins	28.94	6.237e3	1.289e4	0.64	NO	3.2646	3.2646
3 Total Penta-Dioxins	29.43	5.668e3	8.409e3	0.67	NO	2.1747	2.1747
4 Total Penta-Dioxins	29.60	5.336e3	8.233e3	0.65	ND	2.0958	2.0958
5 Total Penta-Dioxins	29.69	4.029e3	6.203e3	0.65	NO	1.5809	1.5809
6 Total Penta-Dioxins	29.90	8.074e3	1.314e4	0.61	NO	3.2786	3.2786
7 Total Penta-Dioxins	29.93	9.396e3	1.452e4	0.63	ND	3.7577	3.7577
8 Total Penta-Dioxins	30.24	2.941e3	3.190e3	0.64	ND	0.80661	0.80661
9 1,2,3,8-PeCDD	30.67	2.297e3	4.129e3	0.56	NO	0.99298	0.99298
10 Total Penta-Dioxins	30.74	3.614e3	5.903e3	0.65	NO	1.5014	1.5014
11 Total Penta-Dioxins	31.05	2.956e3	4.517e3	0.65	NO	1.1547	1.1547



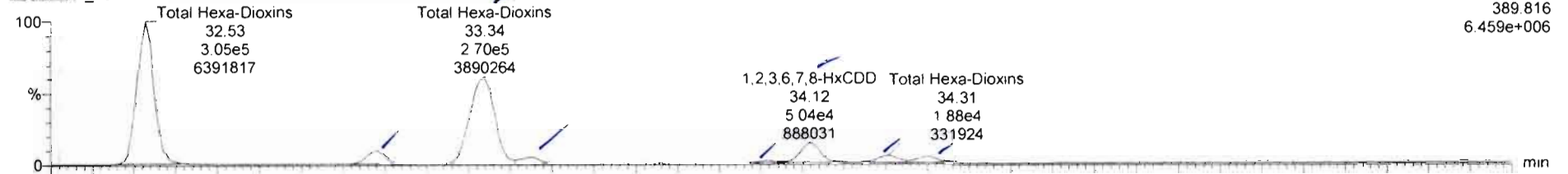
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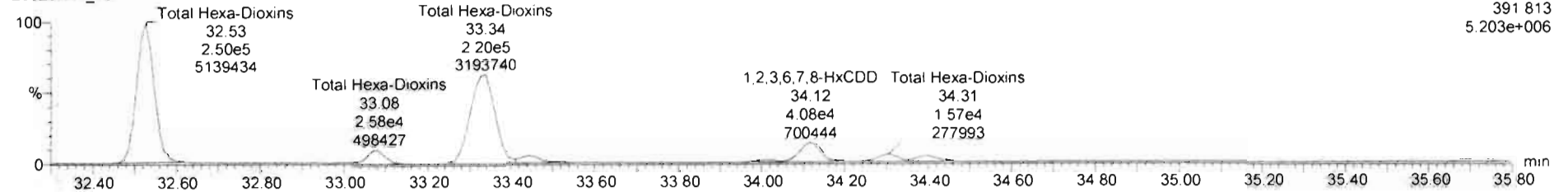
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1,2,3,4,7,8-HxCDD

200202R1_13

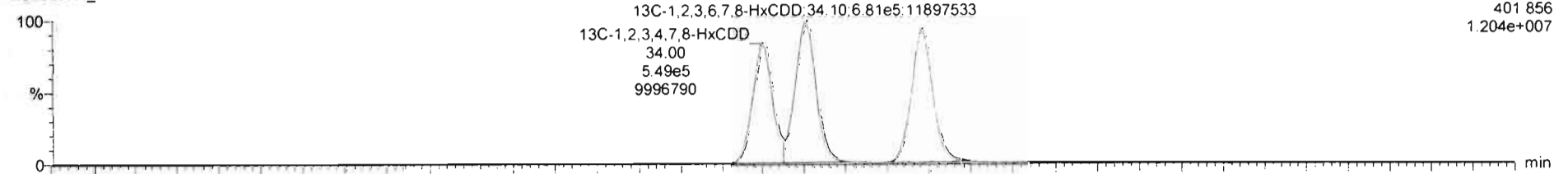


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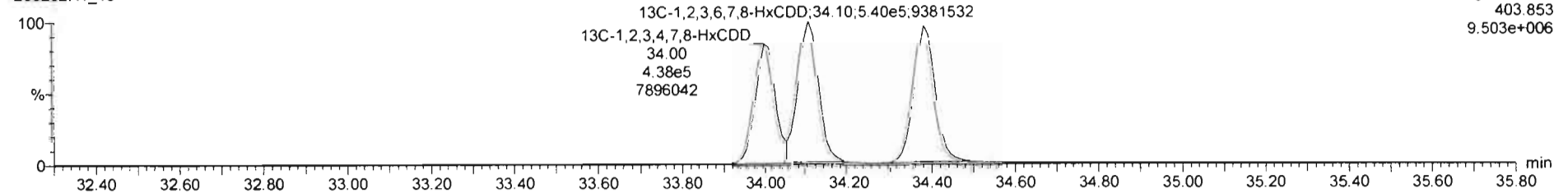


13C-1,2,3,4,7,8-HxCDD

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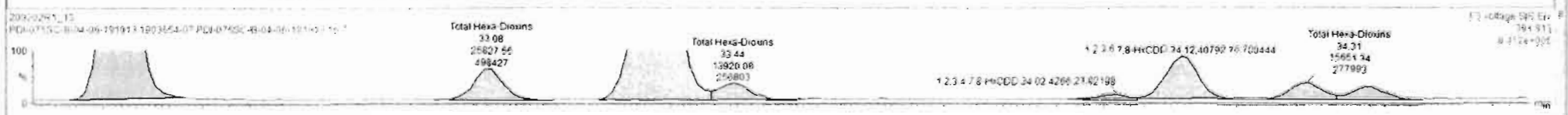
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200202R1_13 - 1903654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins			0.9211	10.091			246		0.363	246

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.53	3.054e5	2.499e5	1.22	NO	106.03
2	Total Hexa-Dioxins	33.06	3.158e4	2.583e4	1.22	NO	10.962
3	Total Hexa-Dioxins	33.34	2.695e5	2.205e5	1.22	NO	93.558
4	Total Hexa-Dioxins	33.44	1.722e4	1.392e4	1.24	NO	5.9458
5	1,2,3,4,7,8-HxCDD	34.02	5.563e3	4.266e3	1.30	NO	1.8432
6	1,2,3,6,7,8-HxCDD	34.12	5.043e4	4.079e4	1.24	NO	16.081
7	Total Hexa-Dioxins	34.31	1.876e4	1.585e4	1.20	NO	6.5732
8	1,2,3,7,8,9-HxCDD	34.40	1.592e4	1.264e4	1.26	NO	7.2559



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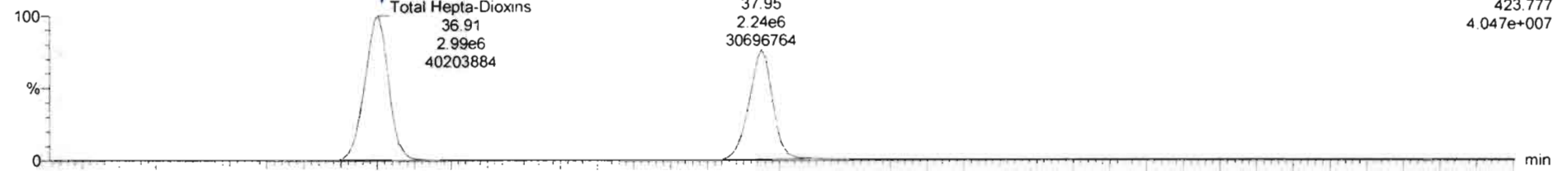
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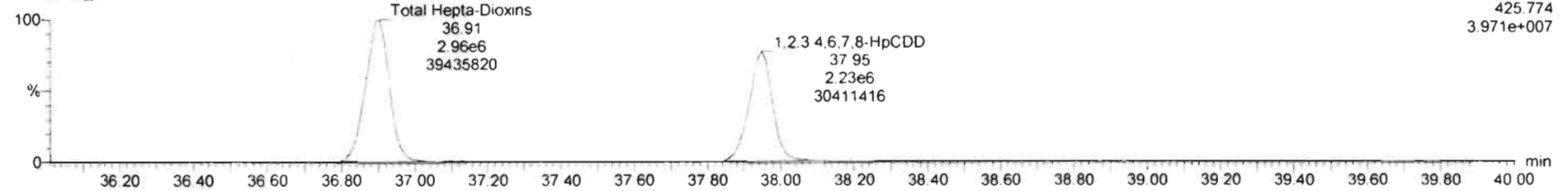
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1,2,3,4,6,7,8-HpCDD

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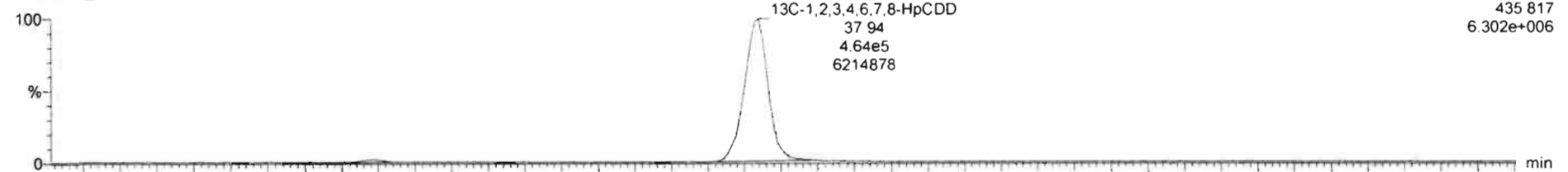


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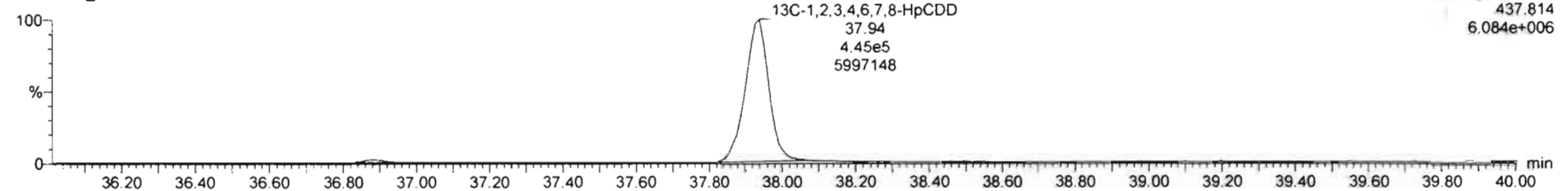


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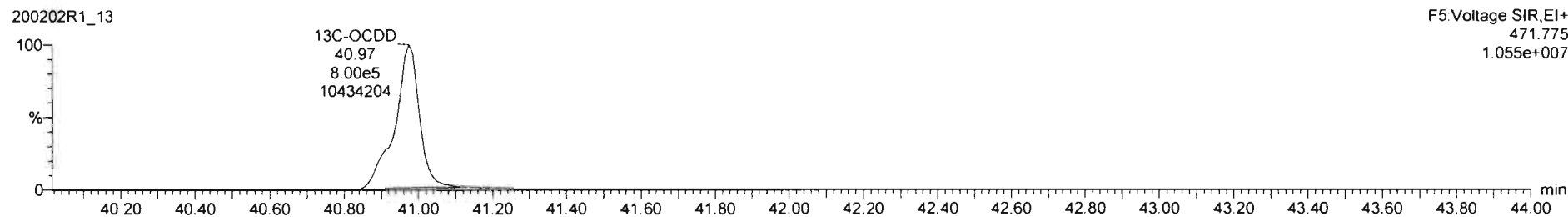
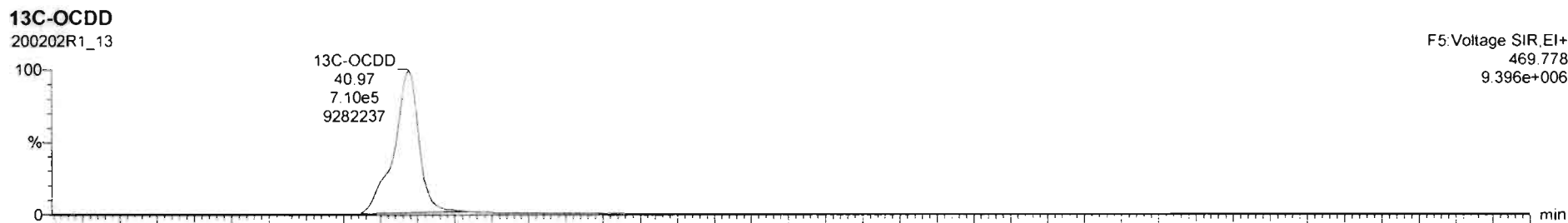
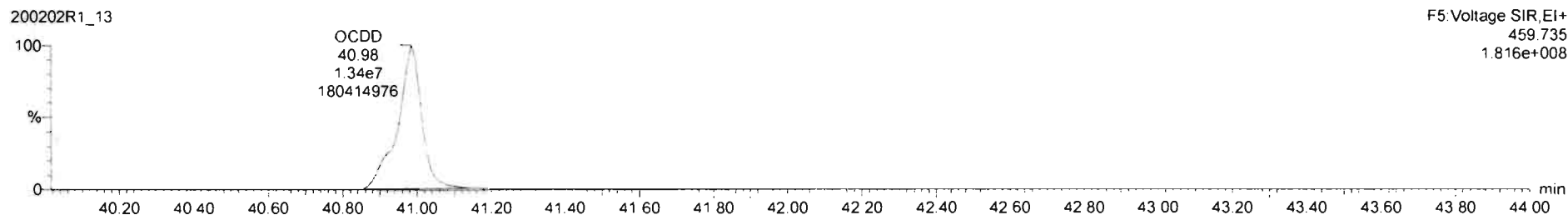
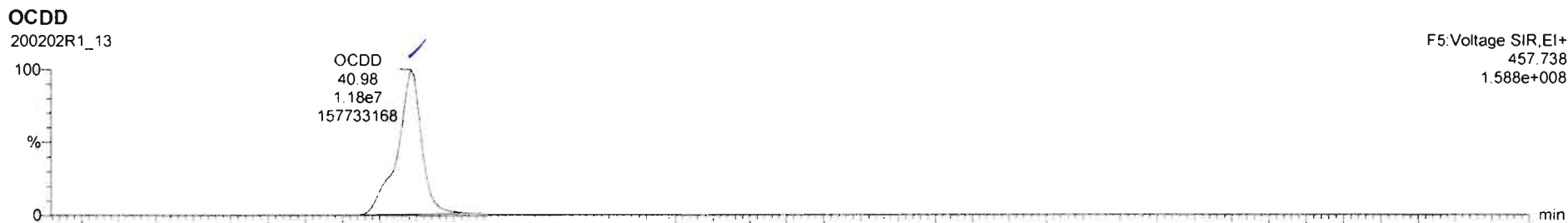
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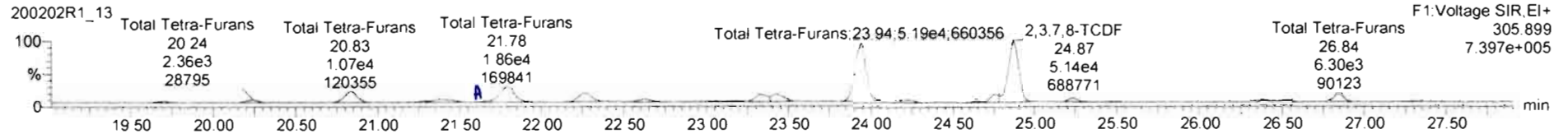
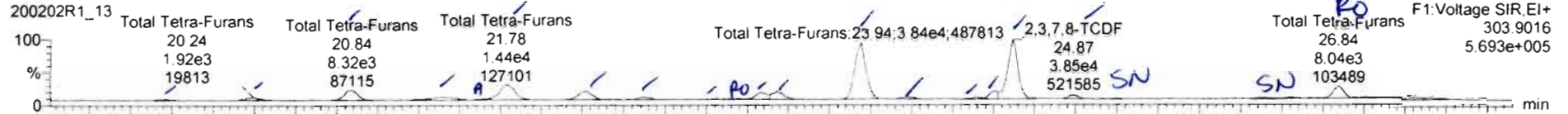


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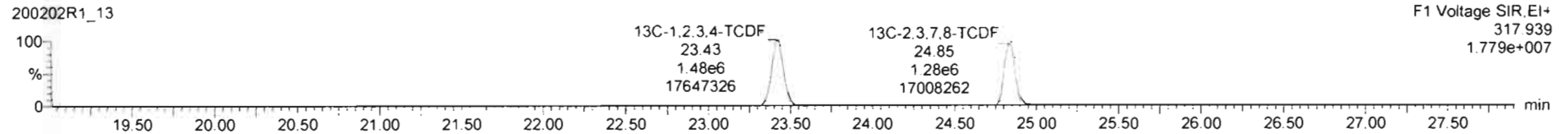
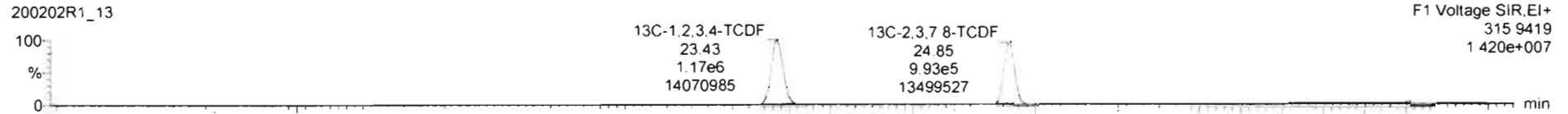
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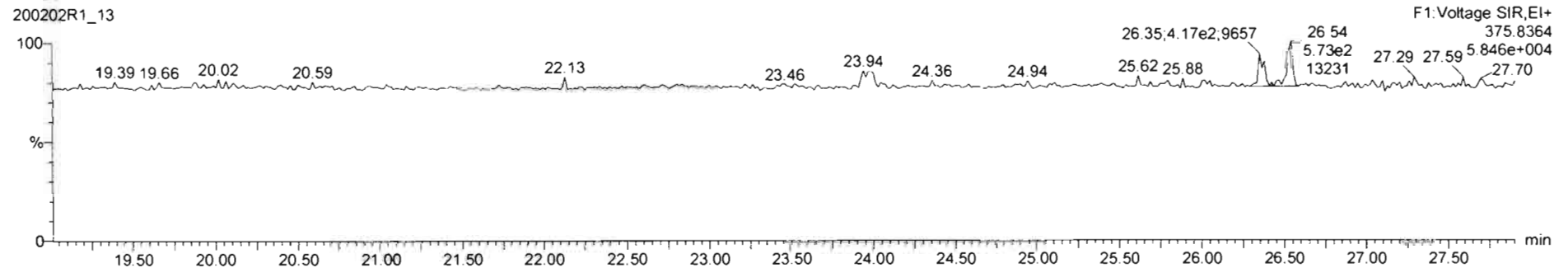
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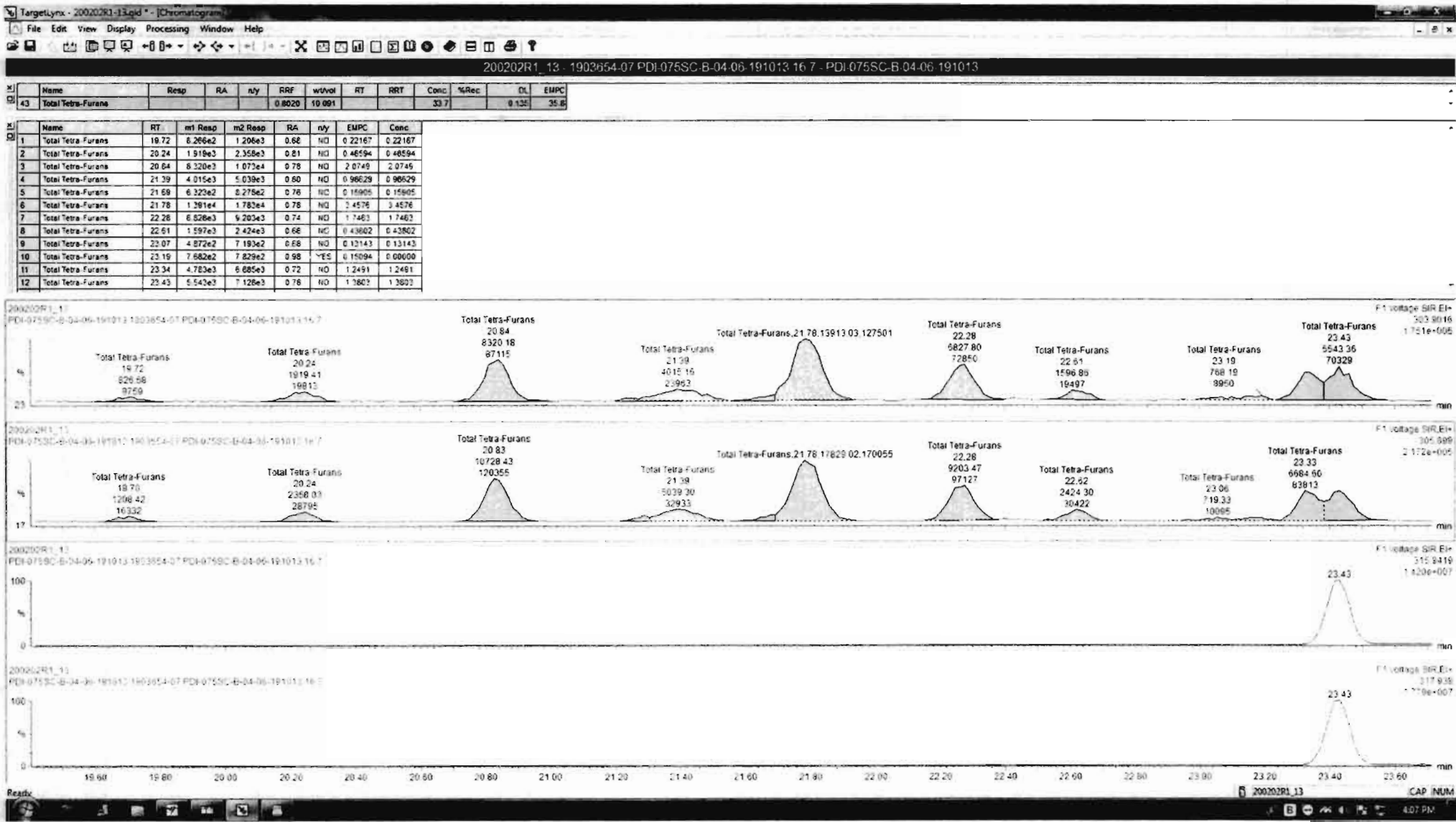


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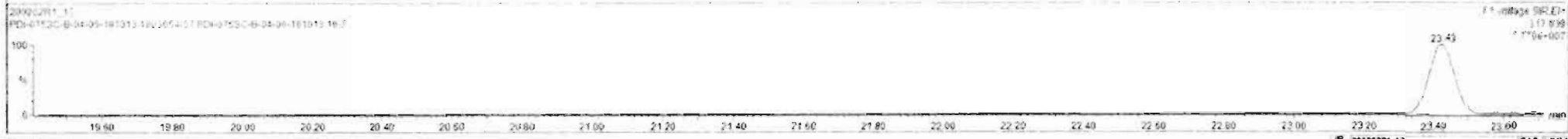
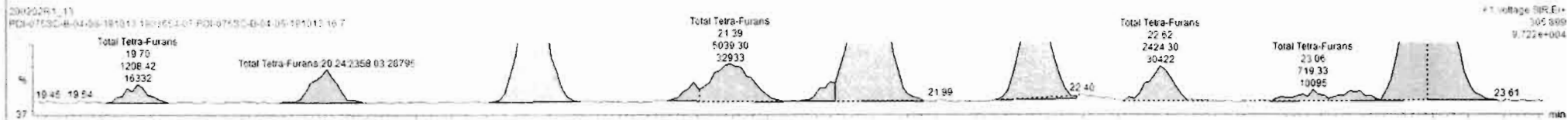
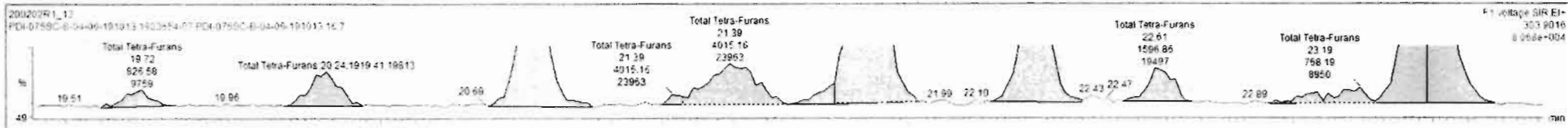


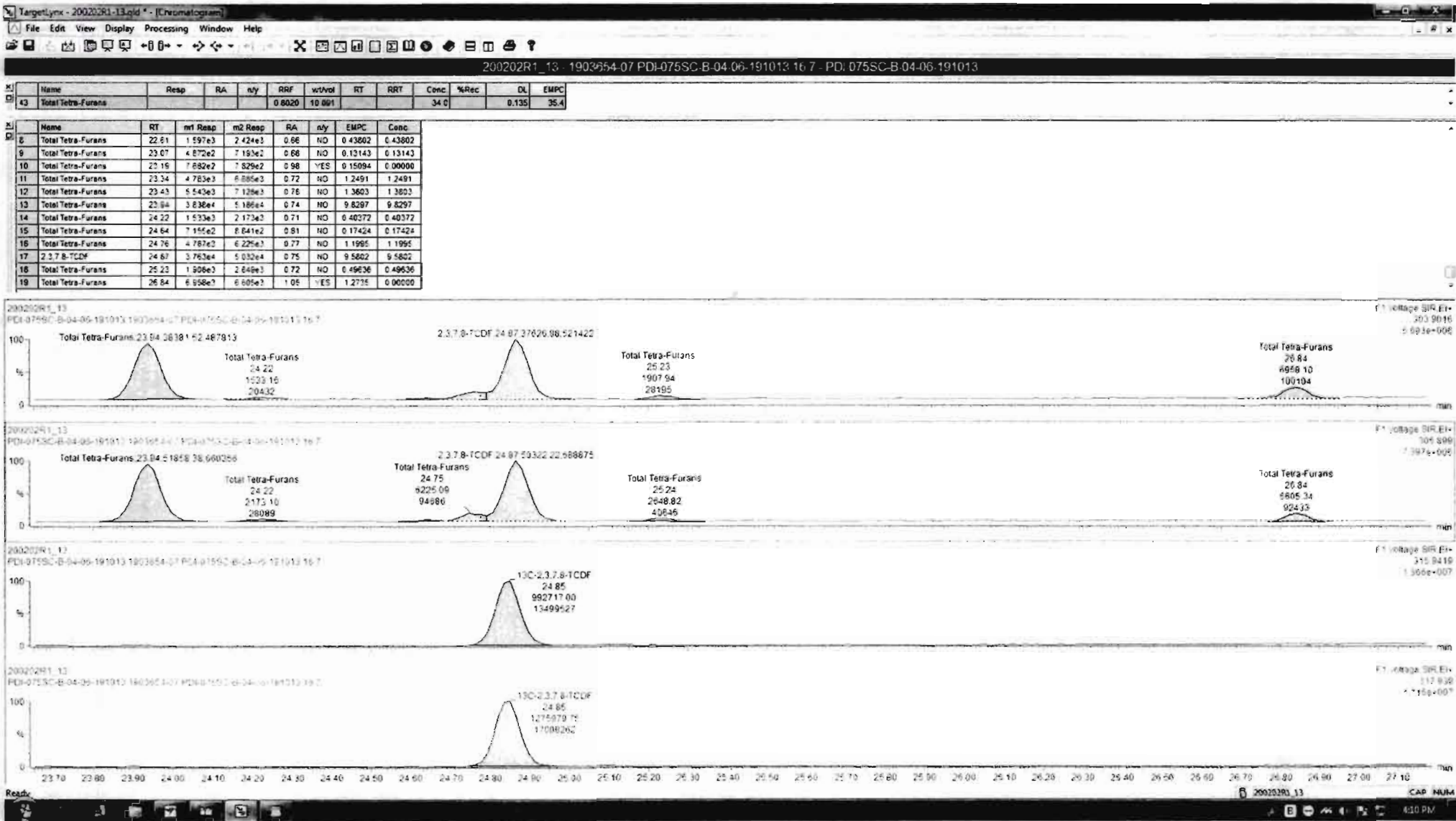


200202R1_13 - 1903654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.0020	10.0%			33.7		0.135	35.8

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Tetra-Furans	19.72	8.266e2	1.200e3	0.68	NO	0.22167	0.22167
2	Total Tetra-Furans	20.24	1.519e3	2.359e3	0.81	NO	0.46594	0.46594
3	Total Tetra-Furans	20.64	8.320e3	1.073e4	0.78	NO	2.0749	2.0749
4	Total Tetra-Furans	21.39	4.015e3	5.039e3	0.80	NO	0.98629	0.98629
5	Total Tetra-Furans	21.69	6.323e2	8.276e2	0.76	NO	0.15905	0.15905
6	Total Tetra-Furans	21.78	1.301e4	1.763e4	0.78	NO	3.4576	3.4576
7	Total Tetra-Furans	22.28	6.828e3	9.203e3	0.74	NO	1.7482	1.7482
8	Total Tetra-Furans	22.51	1.197e3	2.424e3	0.66	NO	0.43602	0.43602
9	Total Tetra-Furans	23.07	4.872e2	7.193e2	0.68	NO	0.12143	0.12143
10	Total Tetra-Furans	23.15	7.682e2	7.829e2	0.98	YES	0.15094	0.00000
11	Total Tetra-Furans	23.34	4.783e3	5.685e3	0.72	NO	1.2451	1.2451
12	Total Tetra-Furans	23.43	5.543e3	7.126e3	0.78	NO	1.3803	1.3803

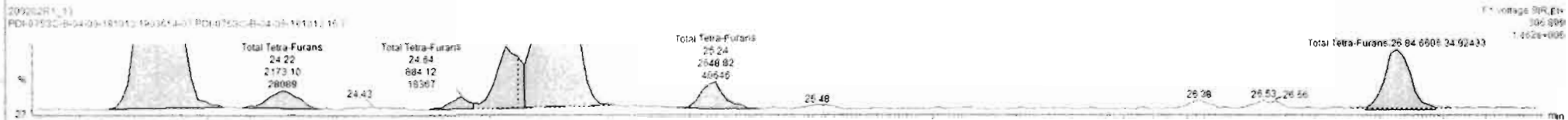
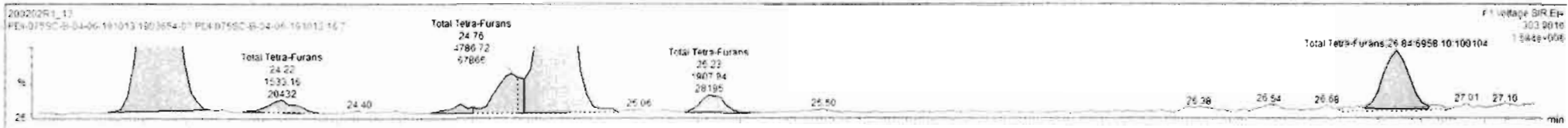




200202R1_13 - 1903654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

RT	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.0020	10.001			34.0		0.135	35.4

RT	Name	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
6	Total Tetra-Furans	1.597e3	2.424e3	0.66	NO	0.43802	0.43802
8	Total Tetra-Furans	4.872e2	7.193e2	0.68	NO	0.13143	0.13143
10	Total Tetra-Furans	7.682e2	7.829e2	0.98	YES	0.15094	0.00000
11	Total Tetra-Furans	4.783e3	6.685e3	0.72	NO	1.2451	1.2451
12	Total Tetra-Furans	5.543e3	7.128e3	0.76	NO	1.3803	1.3803
13	Total Tetra-Furans	3.838e4	5.186e4	0.74	NO	9.8297	9.8297
14	Total Tetra-Furans	1.535e3	2.173e3	0.71	NO	0.40372	0.40372
15	Total Tetra-Furans	7.155e2	8.841e2	0.81	NO	0.17424	0.17424
16	Total Tetra-Furans	4.787e3	6.225e3	0.77	NO	1.1995	1.1995
17	2,3,7,8-TCDF	3.763e4	5.032e4	0.75	NO	9.5802	9.5802
18	Total Tetra-Furans	1.508e3	2.649e3	0.72	NO	0.49636	0.49636
19	Total Tetra-Furans	6.958e3	8.605e3	1.05	YES	1.2735	0.00000



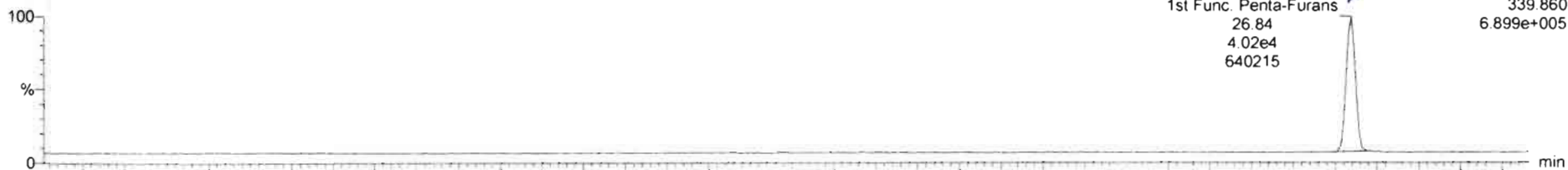
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

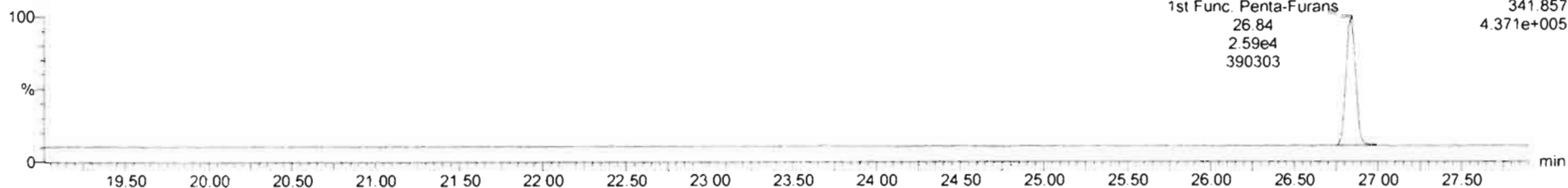
Name: 200202R1_13, Date: 02-Feb-2020, Time: 19:47:53, ID: 1903654-07 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

1st Func. Penta-Furans

200202R1_13

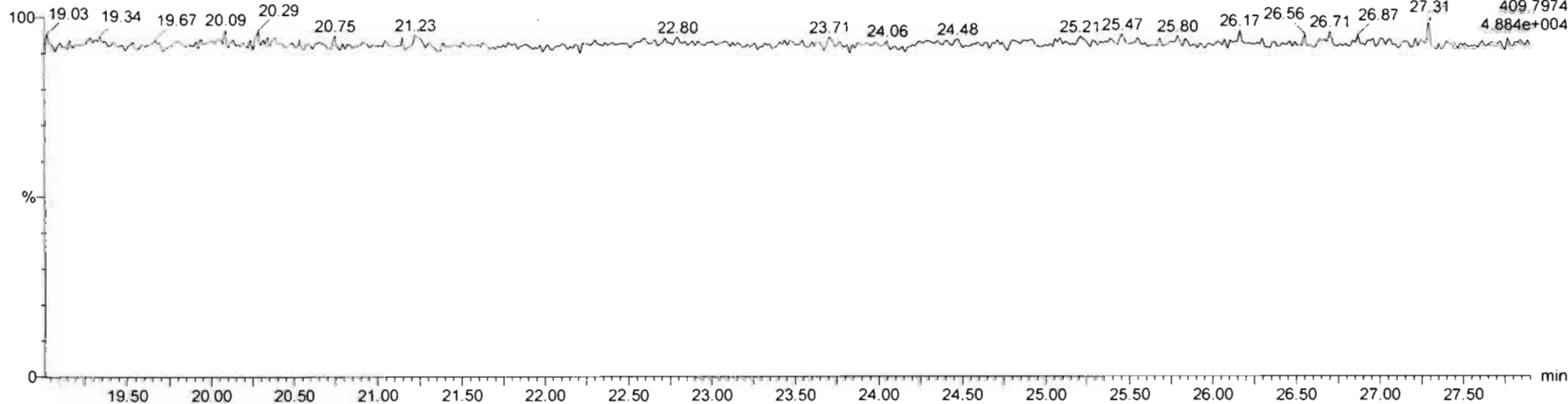


200202R1_13



DPE6

200202R1_13



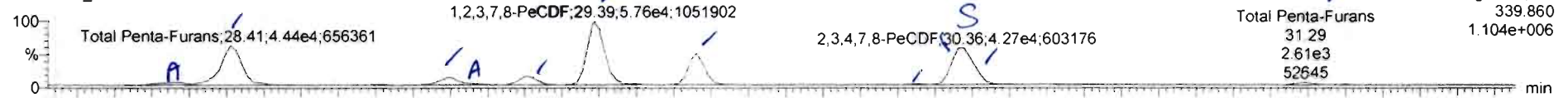
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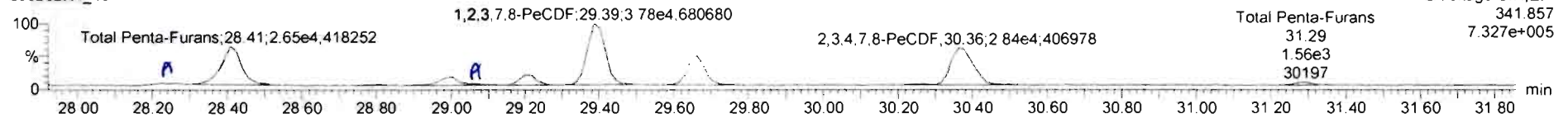
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1,2,3,7,8-PeCDF

200202R1_13

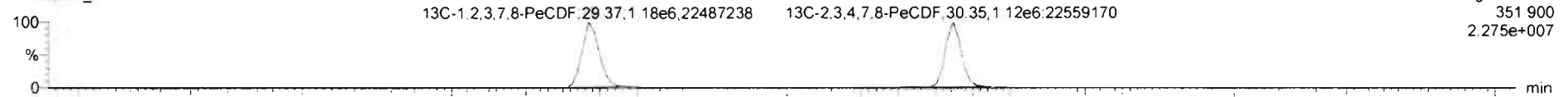


200202R1_13

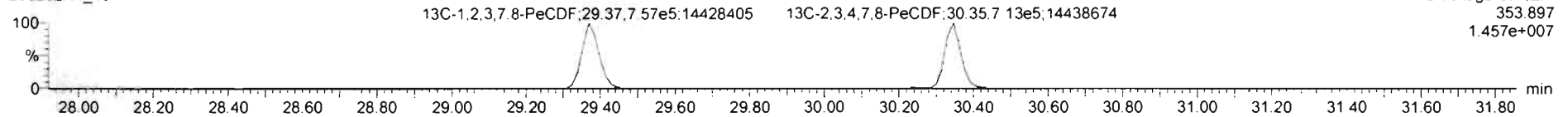


13C-1,2,3,7,8-PeCDF

200202R1_13

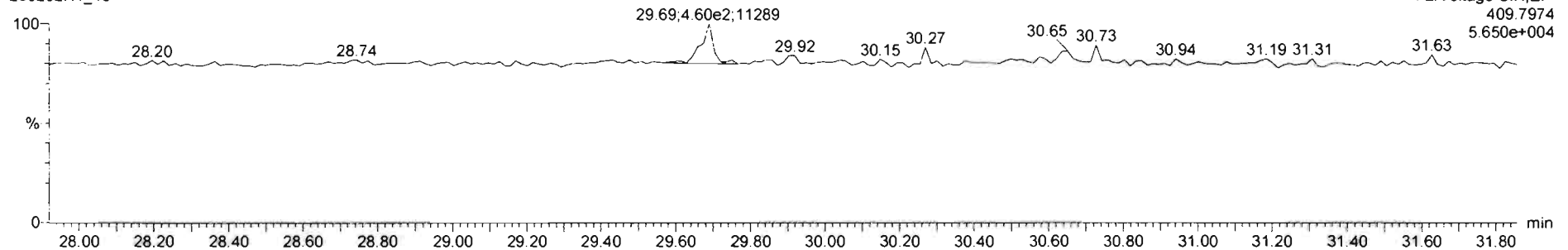


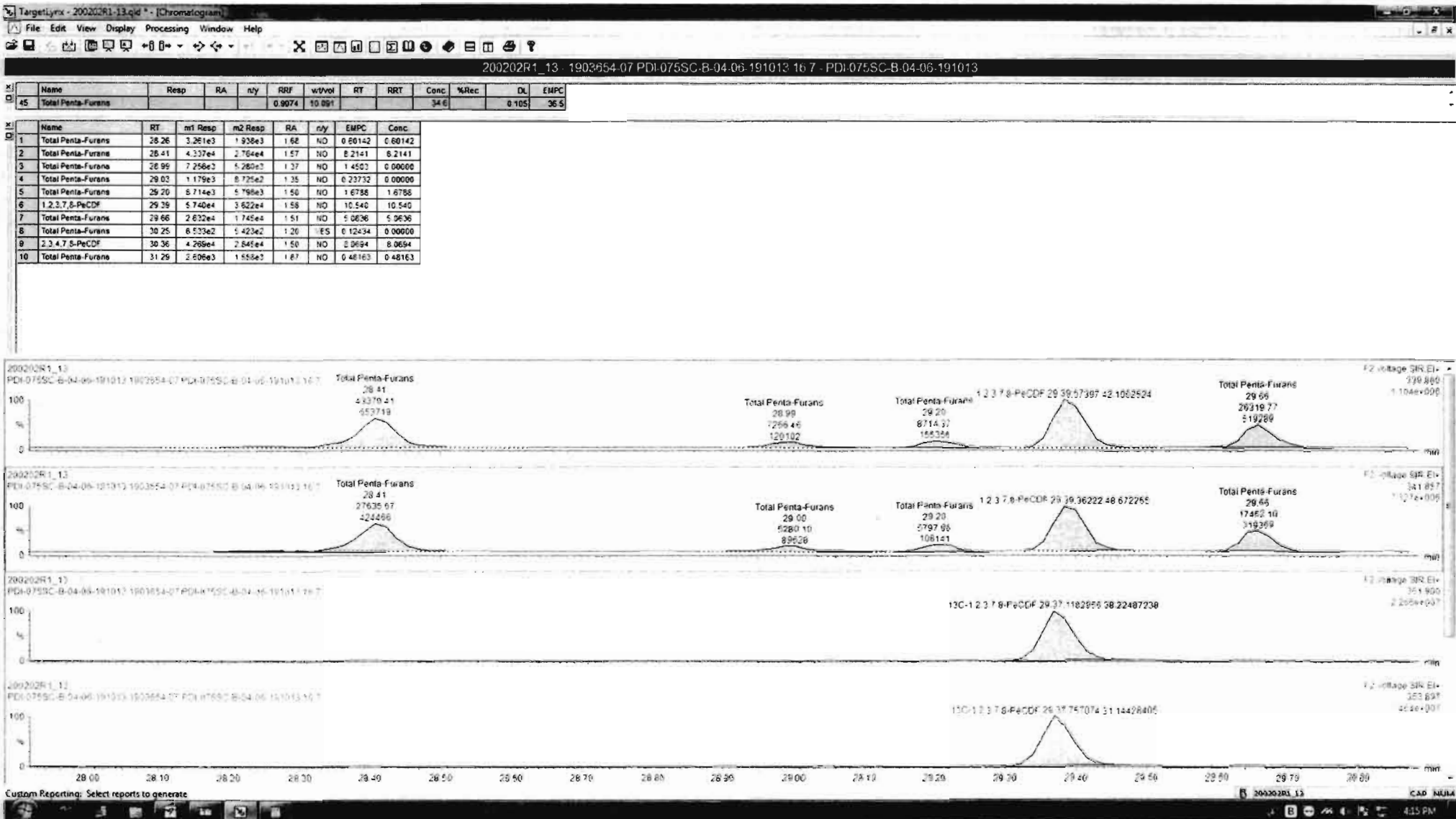
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DPE2

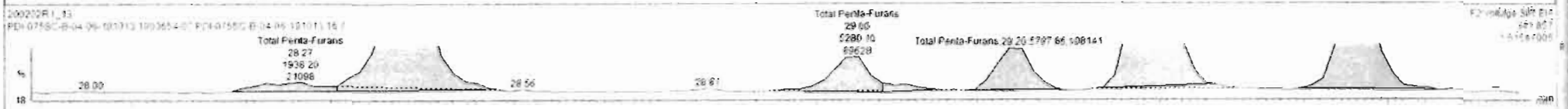
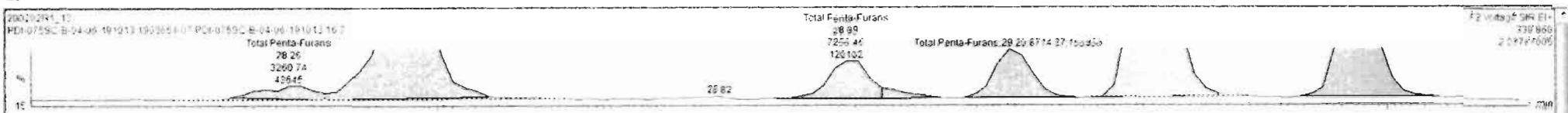
200202R1_13





Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.091			34.6		0.105	36.5

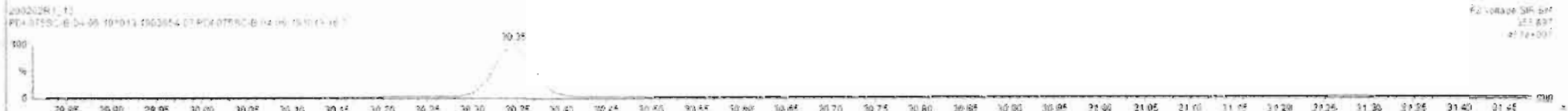
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.26	3.261e3	1.938e3	1.68	NO	0.60142	0.60142
2 Total Penta-Furans	28.41	4.337e4	2.764e4	1.57	NO	8.2141	8.2141
3 Total Penta-Furans	28.95	7.256e3	5.260e3	1.37	NO	1.4503	0.00000
4 Total Penta-Furans	29.03	1.179e3	8.725e2	1.35	NO	0.23732	0.00000
5 Total Penta-Furans	29.20	6.714e3	5.795e3	1.50	NO	1.6788	1.6788
6 1,2,3,7,8-PeCDF	29.26	5.740e4	3.622e4	1.58	NO	10.540	10.540
7 Total Penta-Furans	29.66	2.632e4	1.745e4	1.51	NO	5.0636	5.0636
8 Total Penta-Furans	30.25	6.535e2	5.423e2	1.20	YES	0.12434	0.00000
9 2,3,4,7,8-PeCDF	30.36	4.269e4	2.645e4	1.58	NO	8.0684	8.0684
10 Total Penta-Furans	31.29	2.606e3	1.558e2	1.67	NO	0.48182	0.48183

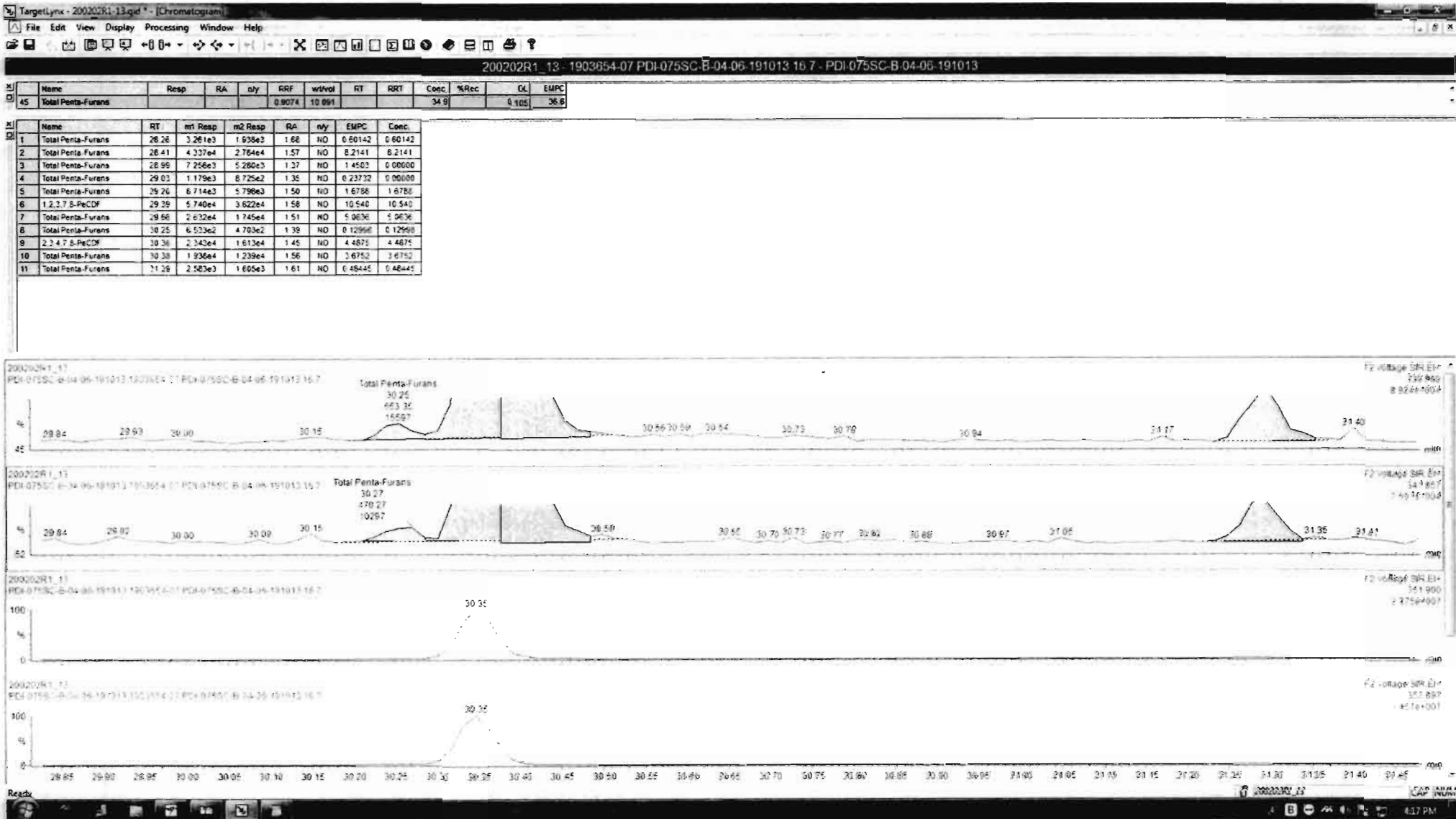


200202R1_13 - 1903654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	nly	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.091			34.8		0.105	36.6

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	26.26	3.261e3	1.938e3	1.68	NO	0.60142	0.60142
2 Total Penta-Furans	28.41	4.337e4	2.764e4	1.57	NO	8.2141	8.2141
3 Total Penta-Furans	28.99	7.256e3	5.280e3	1.37	NO	1.4502	0.00000
4 Total Penta-Furans	29.03	1.179e3	8.725e2	1.35	NO	0.23732	0.00000
5 Total Penta-Furans	29.20	8.714e3	5.798e3	1.50	NO	1.6788	1.6788
6 1,2,3,7,8-PeCDF	29.39	5.740e4	3.622e4	1.55	NO	10.540	10.540
7 Total Penta-Furans	29.66	2.632e4	1.745e4	1.51	NO	5.0636	5.0636
8 Total Penta-Furans	30.25	6.533e2	4.703e2	1.39	NO	0.12996	0.12998
9 2,3,4,7,8-PeCDF	30.36	2.343e4	1.613e4	1.45	NO	4.4875	4.4875
10 Total Penta-Furans	30.38	1.936e4	1.239e4	1.56	NO	3.6752	3.6752
11 Total Penta-Furans	31.29	2.563e3	1.605e3	1.61	NO	0.46445	0.46445





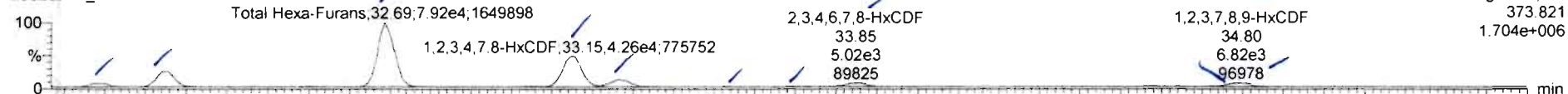
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

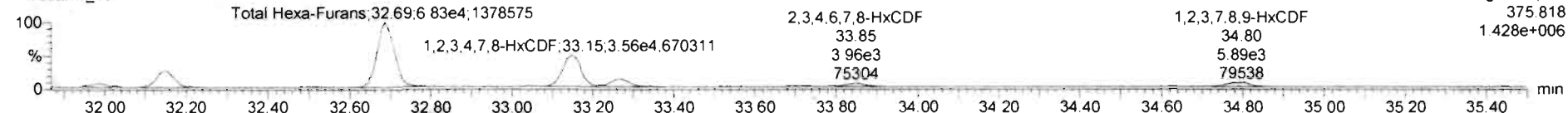
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1,2,3,4,7,8-HxCDF

200202R1_13

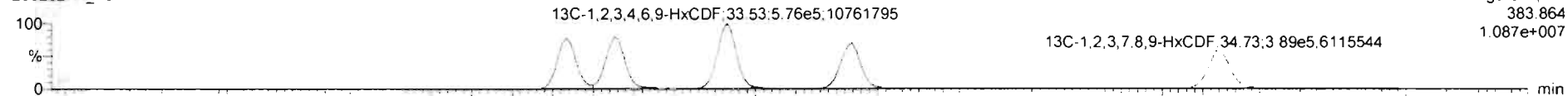


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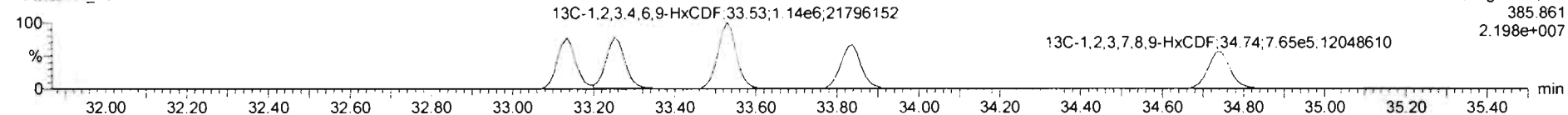


13C-1,2,3,4,7,8-HxCDF

200202R1_13

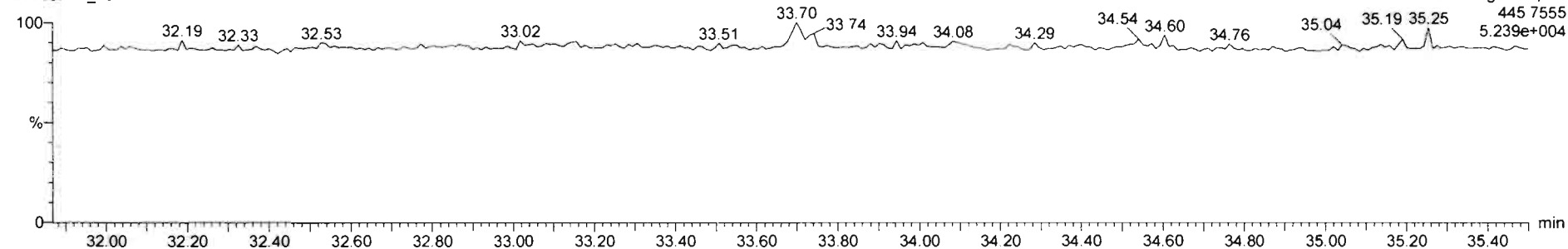


200202R1_13



DPE3

200202R1_13



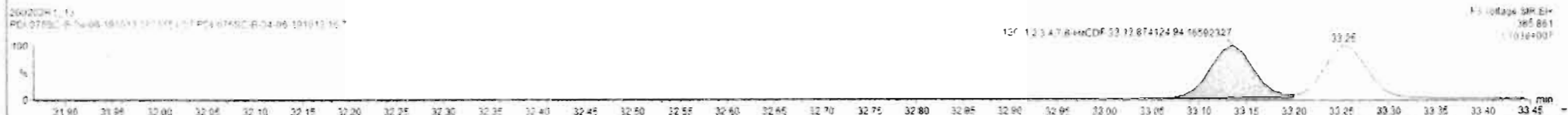
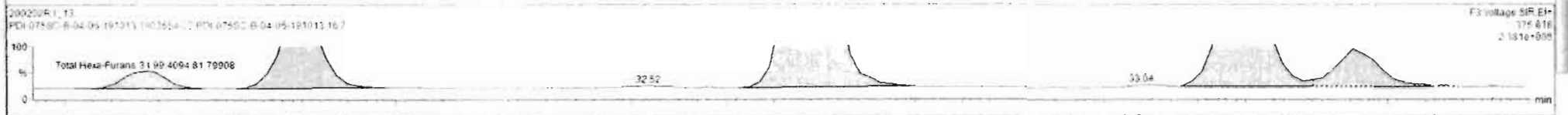
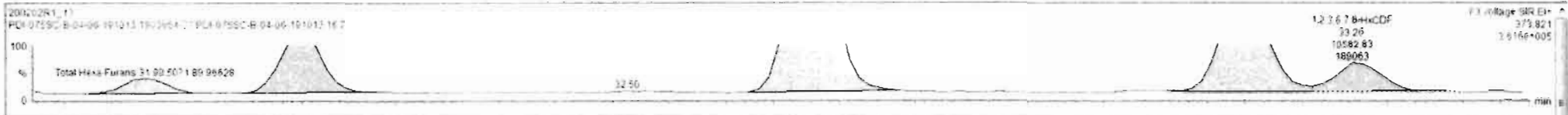
TargetLynx - 200202R1_13.qld - [Chromatogram]

File Edit View Display Processing Window Help

200202R1_13_1903654-07_PDI-075SC-B-04-06-191013_16.7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.091			34.9		0.105	36.6

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	31.98	5.072e3	4.095e3	1.24	NO	1.5999	1.5999
2 Total Hexa-Furans	32.15	2.080e4	1.770e4	1.16	NO	6.7192	6.7192
3 Total Hexa-Furans	32.69	7.922e4	6.628e4	1.16	NO	25.744	25.744
4 1,2,3,4,7,8-HxCDF	33.15	4.258e4	3.557e4	1.20	NO	13.649	13.649
5 1,2,3,6,7,8-HxCDF	33.26	1.058e4	8.992e3	1.16	NO	3.4067	3.4067
6 Total Hexa-Furans	33.54	4.077e2	3.790e2	1.08	NO	0.12730	0.12730
7 Total Hexa-Furans	33.73	5.167e2	4.626e2	1.12	NO	0.17091	0.17091
8 2,3,4,6,7,8-HxCDF	33.85	5.017e3	3.961e3	1.27	NO	1.6059	1.6059
9 1,2,3,7,8,9-HxCDF	34.80	6.823e2	5.893e2	1.16	NO	2.5457	2.5457



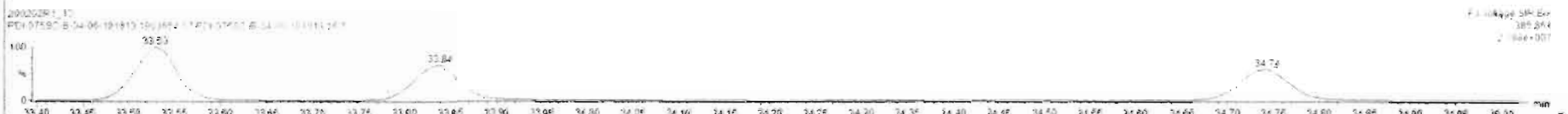
TargetLynx - 200202R1_13.qd - [Chromatogram]

File Edit View Display Processing Window Help

200202R1_13 - 1903654-07 PDI-075SC-B-04-06-191013 16 7 - PDI-075SC-B-04-06-191013

Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9074	10.061			34.9	0.105		36.6

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc	
1	Total Hexa-Furans	31.99	5.072e3	4.095e3	1.24	NO	1.5999	1.5999
2	Total Hexa-Furans	32.15	2.080e4	1.770e4	1.16	NO	6.7192	6.7192
3	Total Hexa-Furans	32.89	7.922e4	6.828e4	1.16	NO	25.744	25.744
4	1,2,3,4,7,8-HxCDF	33.15	4.258e4	3.667e4	1.20	NO	13.649	13.649
5	1,2,3,6,7,8-HxCDF	33.26	1.058e4	8.992e3	1.16	NO	3.4067	3.4067
6	Total Hexa-Furans	33.54	4.077e7	3.790e7	1.08	NO	0.13730	0.13730
7	Total Hexa-Furans	33.73	5.167e2	4.626e2	1.12	NO	0.17091	0.17091
8	2,3,4,6,7,8-HxCDF	33.85	5.017e3	4.961e3	1.27	NO	1.6056	1.6059
9	1,2,3,7,8-HxCDF	34.78	2.225e2	1.944e2	1.14	NO	0.63456	0.63458
10	Total Hexa-Furans	34.80	4.409e3	3.901e3	1.18	NO	1.4860	1.4860



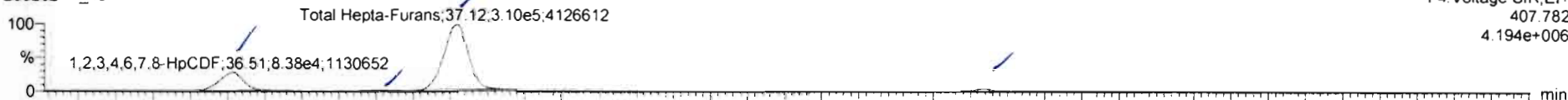
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

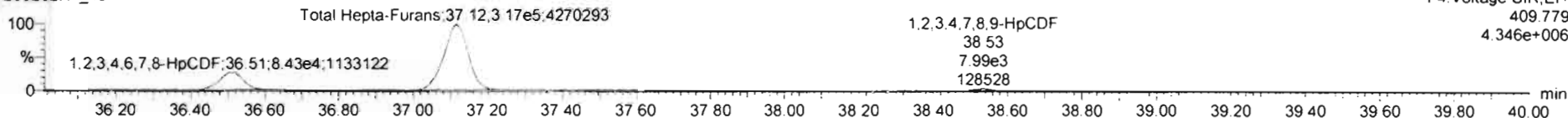
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1,2,3,4,6,7,8-HpCDF

200202R1_13

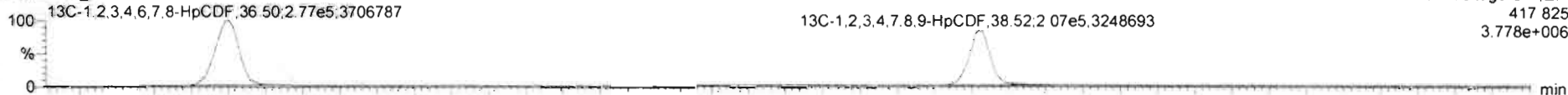


200202R1_13

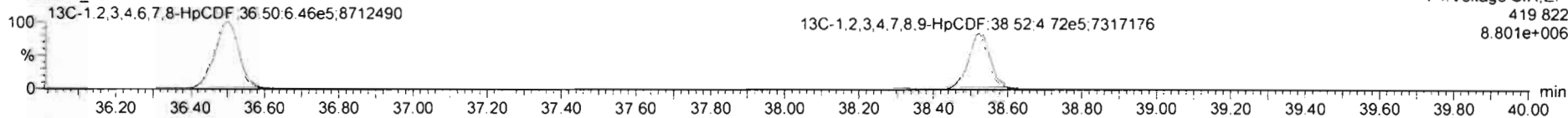


13C-1,2,3,4,6,7,8-HpCDF

200202R1_13

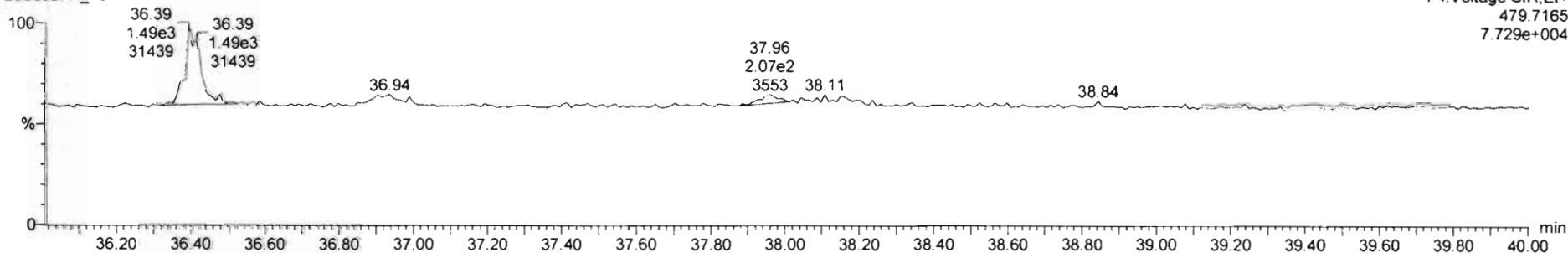


200202R1_13



DPE4

200202R1_13



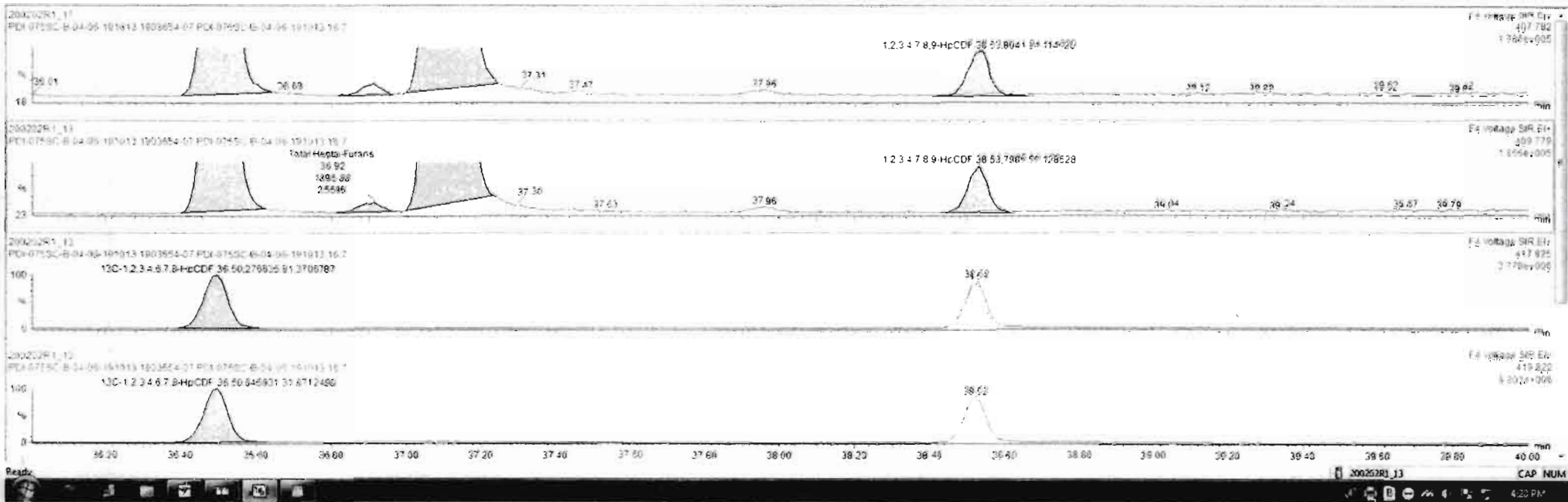
TargetLynx - 200202R1_13.qid - (Chromatogram)

File Edit View Display Processing Window Help

200202R1_13 - 1903654-07 PDI-075SC-B-04-06 191013 16 7 - PDI-075SC-B-04-06 191013

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.6515	10.091			230		0.333	230

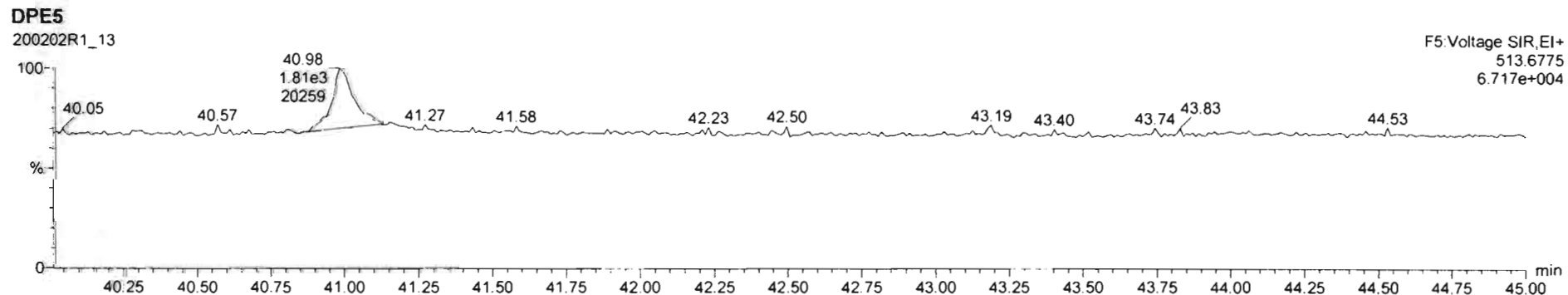
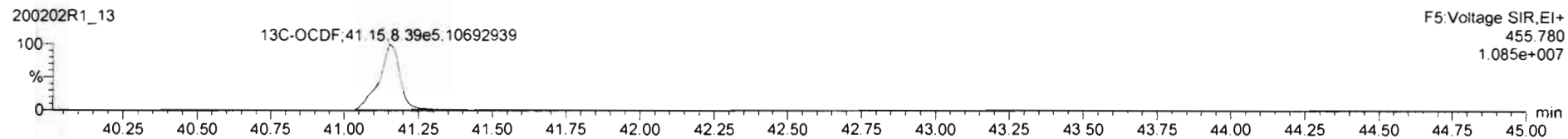
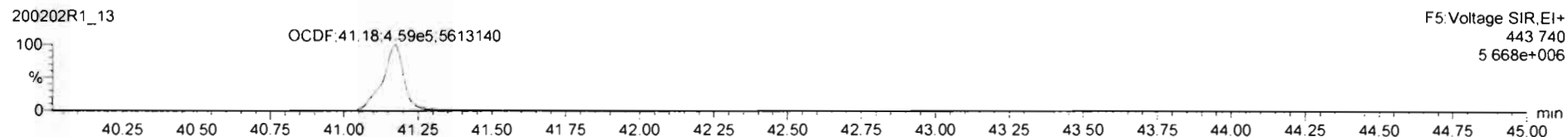
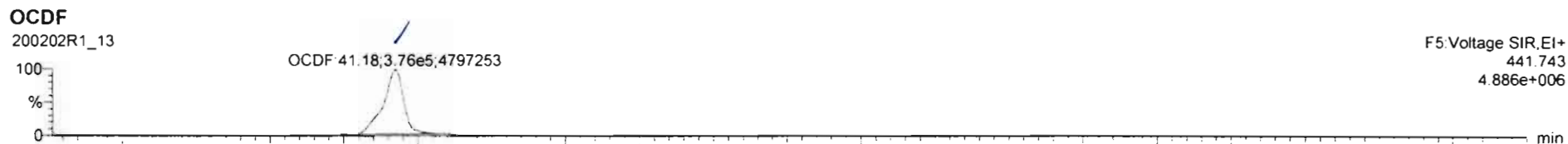
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.51	8.379e4	8.426e4	0.99	NO	42.419	42.419
2 Total Hepta-Furans	36.92	1.832e3	1.696e3	0.97	NO	1.0839	1.0839
3 Total Hepta-Furans	37.12	3.100e5	3.167e5	0.98	NO	182.22	182.22
4 1,2,3,4,7,8,9-HpCDF	38.53	8.042e3	7.966e3	1.01	NO	4.7710	4.7710



Dataset: Untitled

Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
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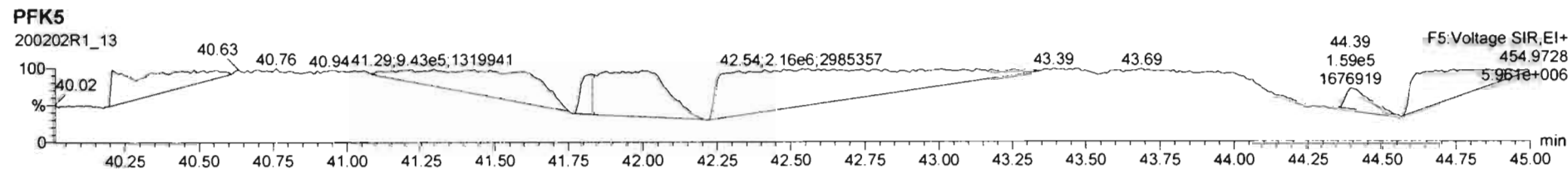
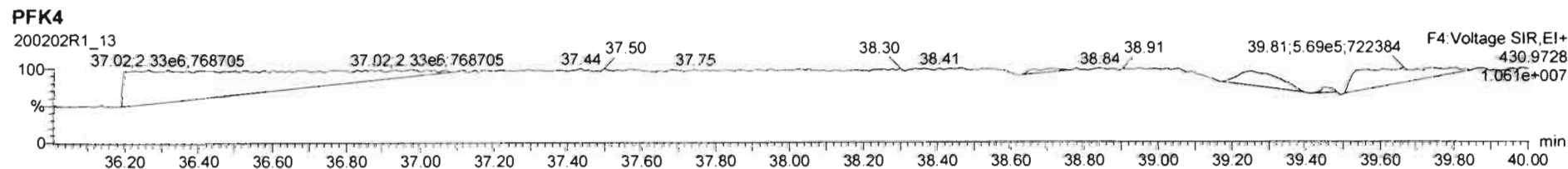
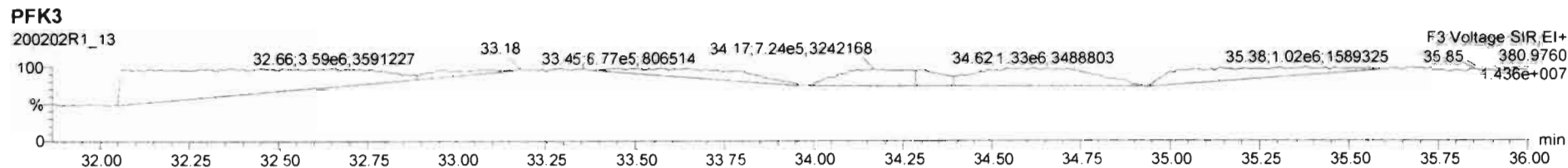
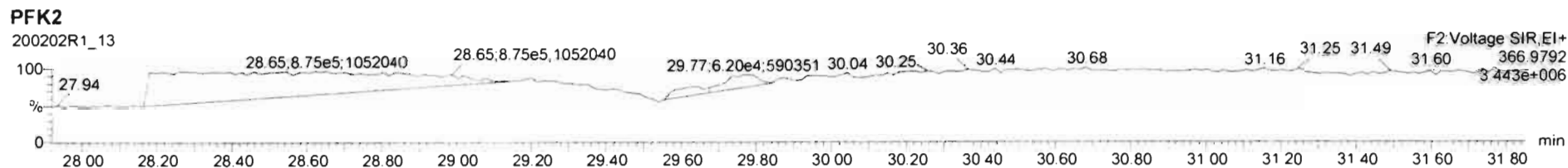
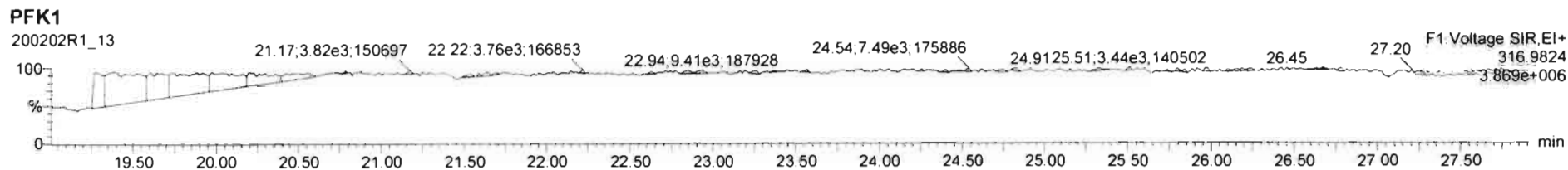
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Dataset: U:\VG12.PRO\Results\200203R1\200203R1-11.qld

Last Altered: Tuesday, February 04, 2020 08:28:32 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:23:00 Pacific Standard Time

07/03/2020

1/13/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

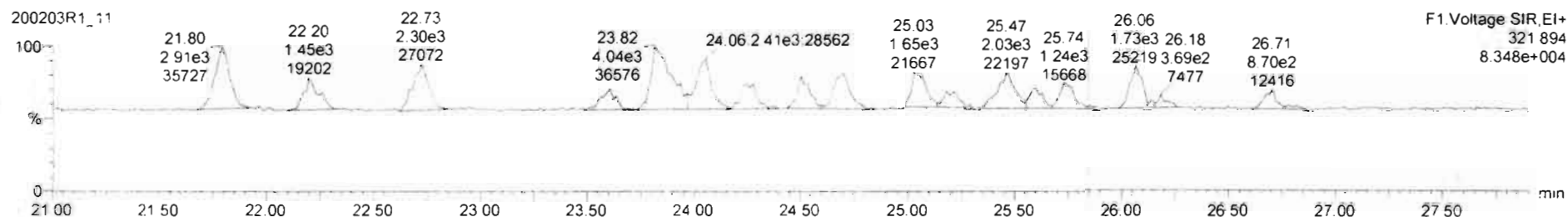
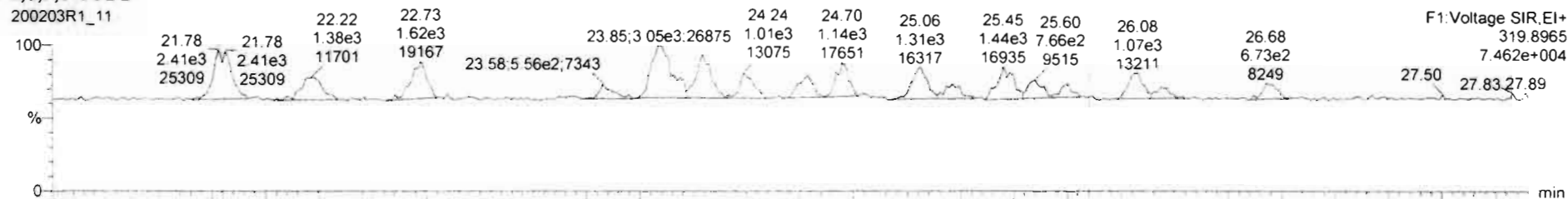
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	4.59e6	0.88	NO	0.975	10.091	✓ 40.932	40.94	1.000	1.000	6679.6		2.26	6680
2	24 13C-OCDD	2.79e5	0.92	NO	0.707	10.091	40.852	40.93	1.218	1.220	135.33	34.1	0.453	
3	35 37Cl-2,3,7,8-TCDD	2.92e5			1.18	10.091	25.754	25.75	1.027	1.027	63.408	80.0	0.0768	
4	36 13C-1,2,3,4-TCDD	7.75e5	0.78	NO	1.00	10.091	25.080	25.08	1.000	1.000	198.19	100	0.336	
5	37 13C-1,2,3,4-TCDF	1.13e6	0.79	NO	1.00	10.091	23.420	23.42	1.000	1.000	198.19	100	0.440	
6	38 13C-1,2,3,4,6,9-HxCDF	5.79e5	0.50	NO	1.00	10.091	33.520	33.54	1.000	1.000	198.19	100	0.617	

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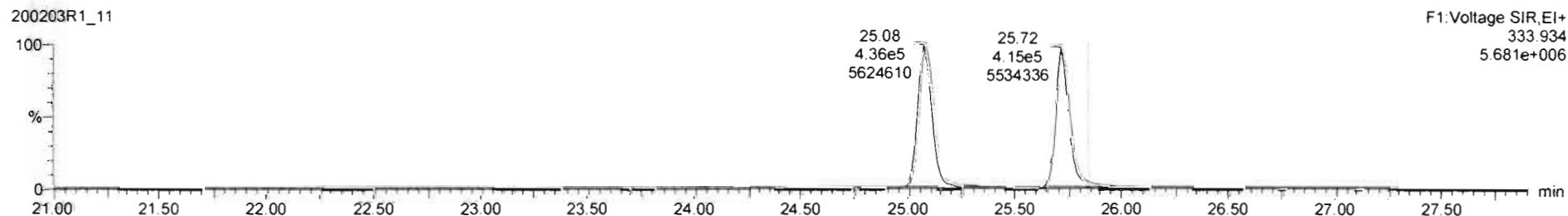
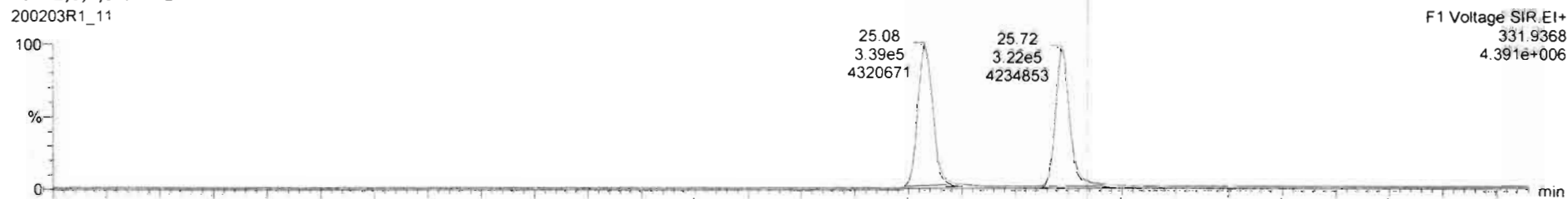
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD



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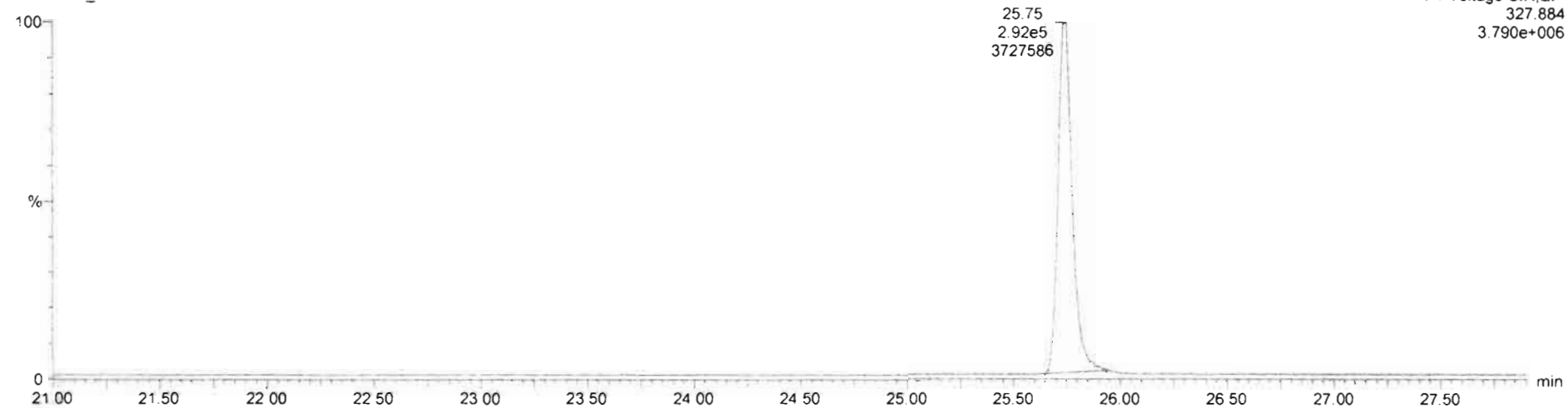
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

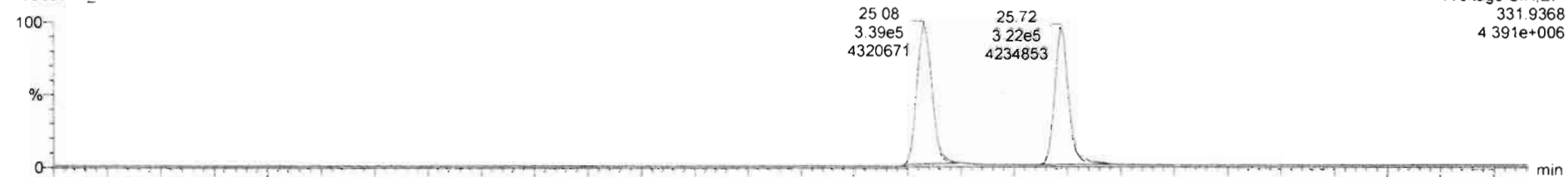
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200203R1_11

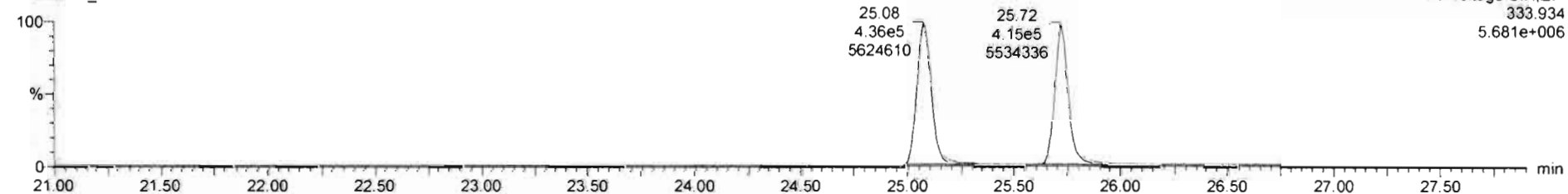


13C-1,2,3,4-TCDD

200203R1_11



200203R1_11



Dataset: Untitled

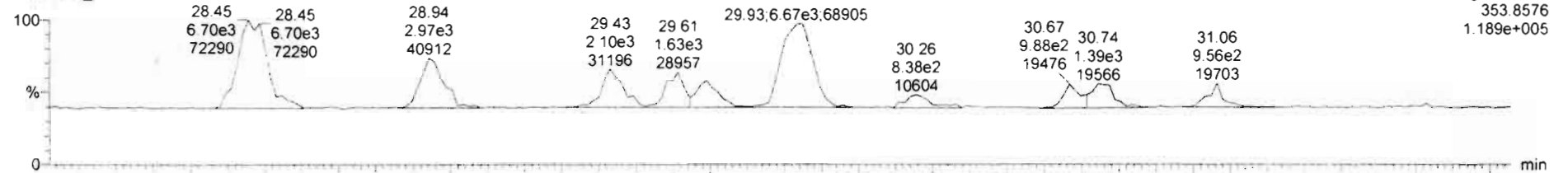
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

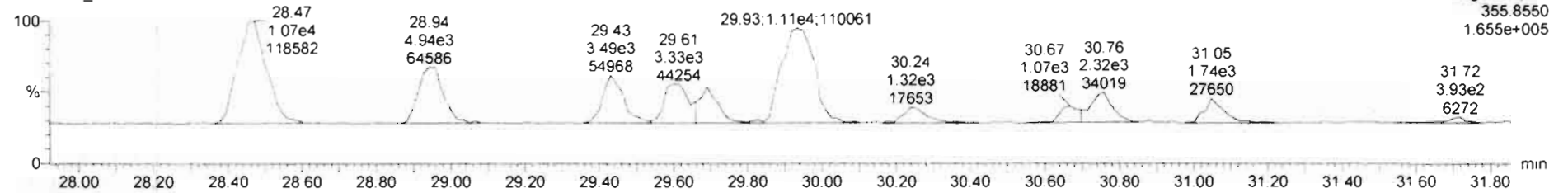
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1,2,3,7,8-PeCDD

200203R1_11

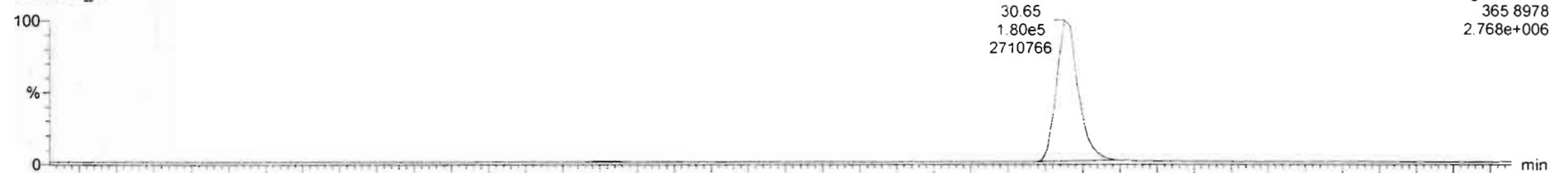


200203R1_11

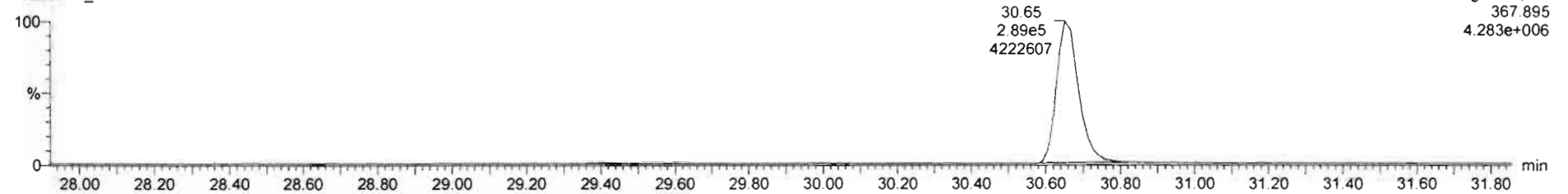


13C-1,2,3,7,8-PeCDD

200203R1_11



200203R1_11



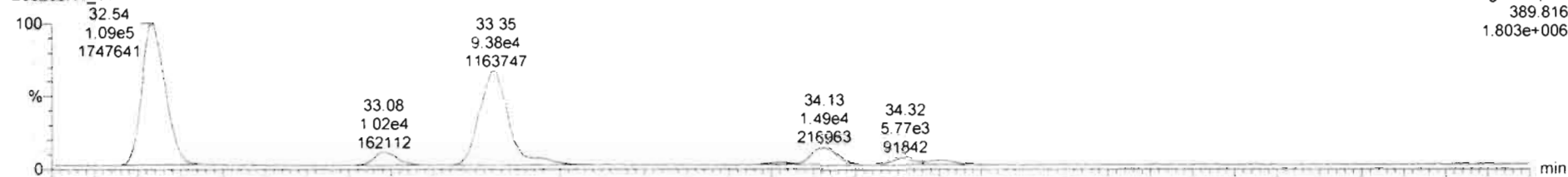
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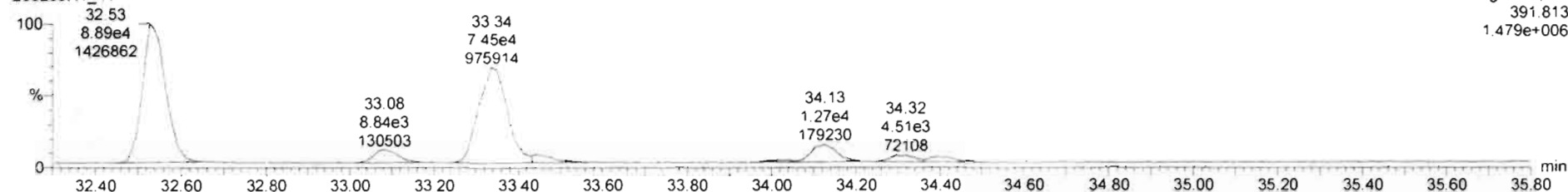
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1,2,3,4,7,8-HxCDD

200203R1_11

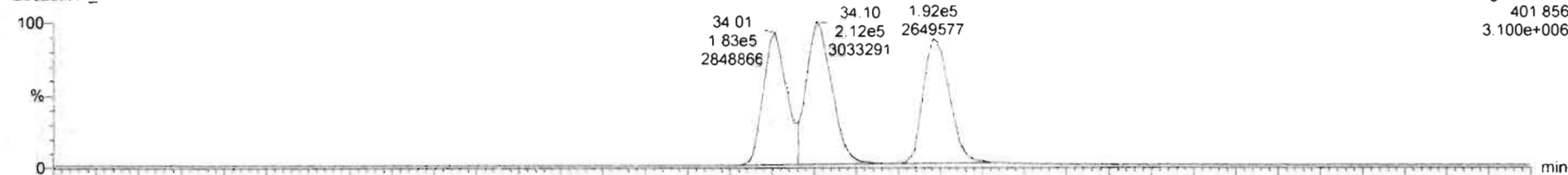


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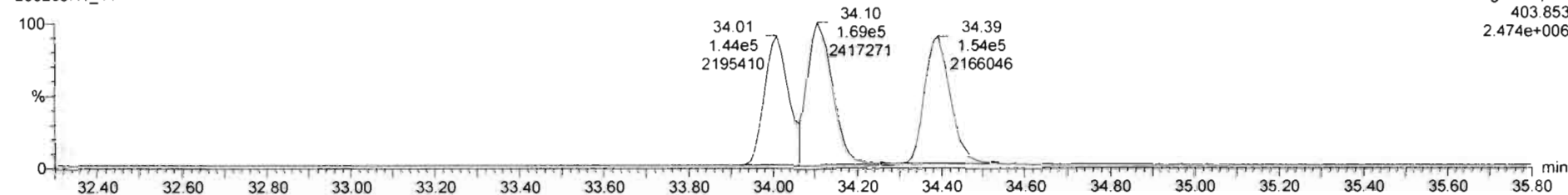


13C-1,2,3,4,7,8-HxCDD

200203R1_11



200203R1_11



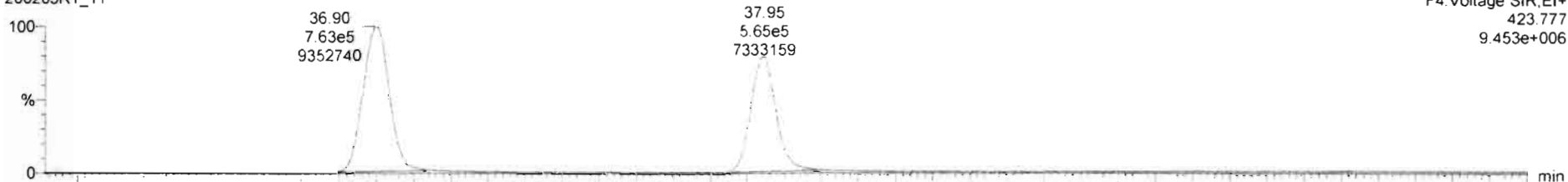
Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

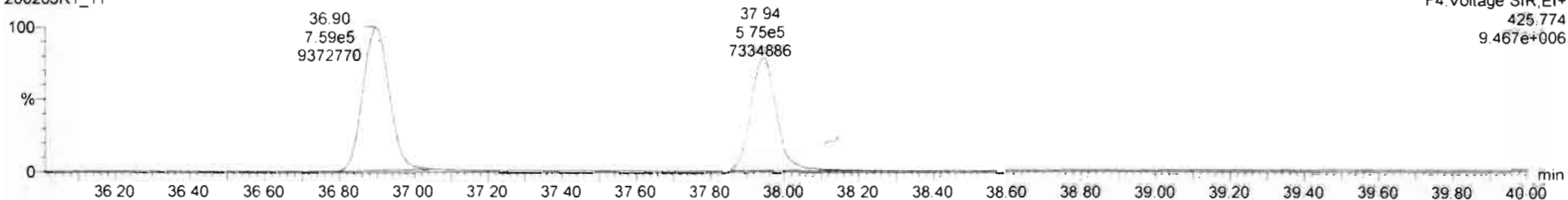
1,2,3,4,6,7,8-HpCDD

200203R1_11



F4: Voltage SIR, EI+
423.777
9.453e+006

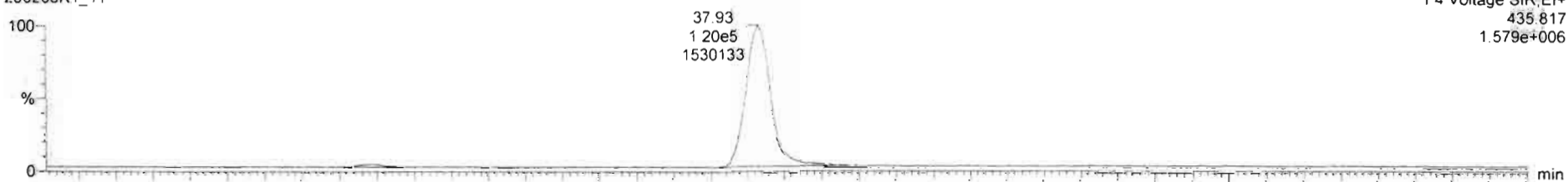
200203R1_11



F4: Voltage SIR, EI+
425.774
9.467e+006

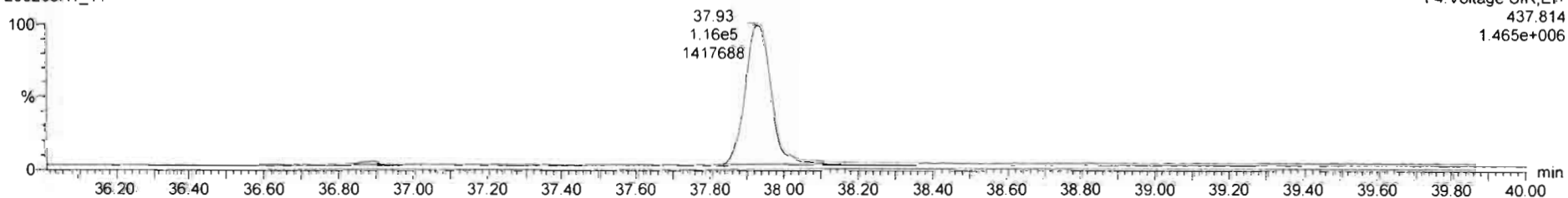
13C-1,2,3,4,6,7,8-HpCDD

200203R1_11



F4: Voltage SIR, EI+
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1.579e+006

200203R1_11

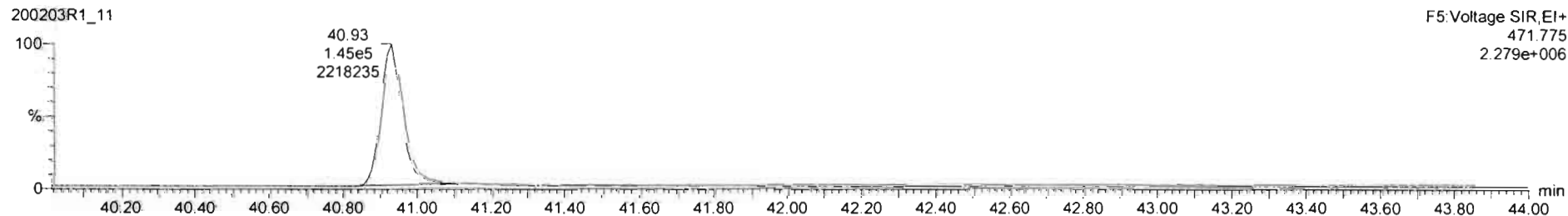
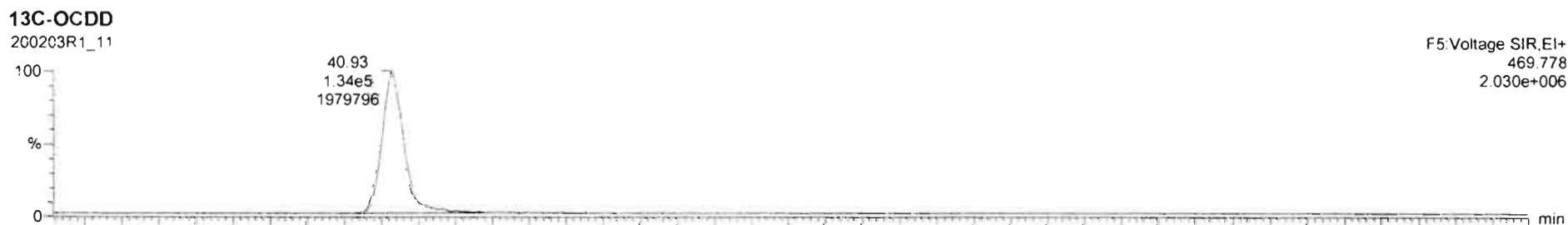
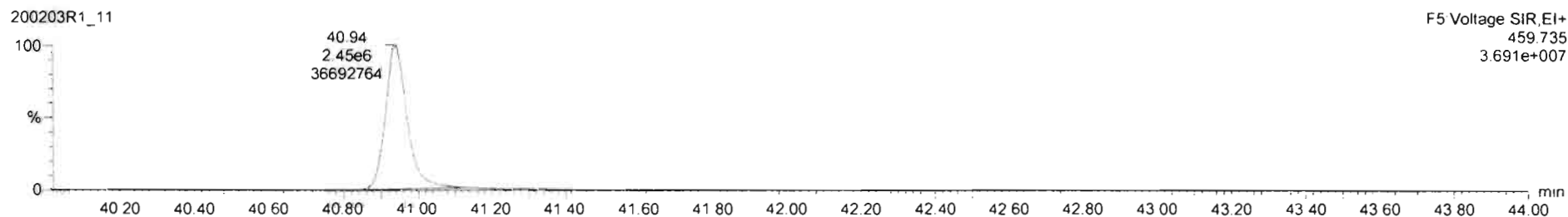


F4: Voltage SIR, EI+
437.814
1.465e+006

Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013



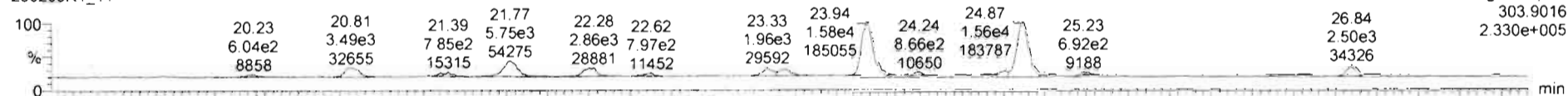
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

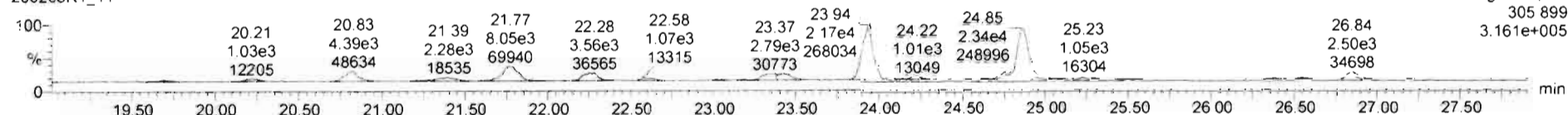
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2,3,7,8-TCDF

200203R1_11

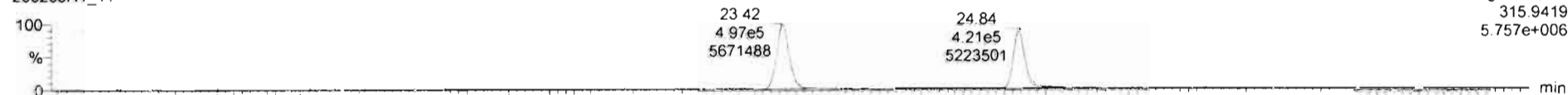


200203R1_11

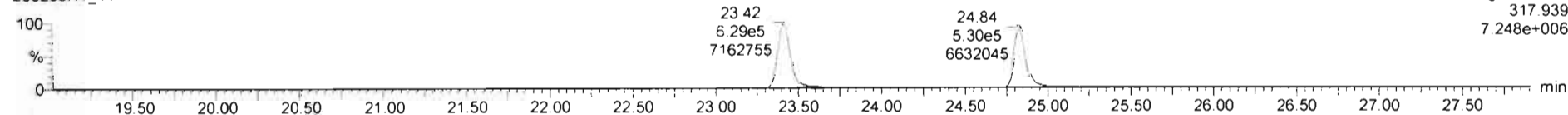


13C-2,3,7,8-TCDF

200203R1_11

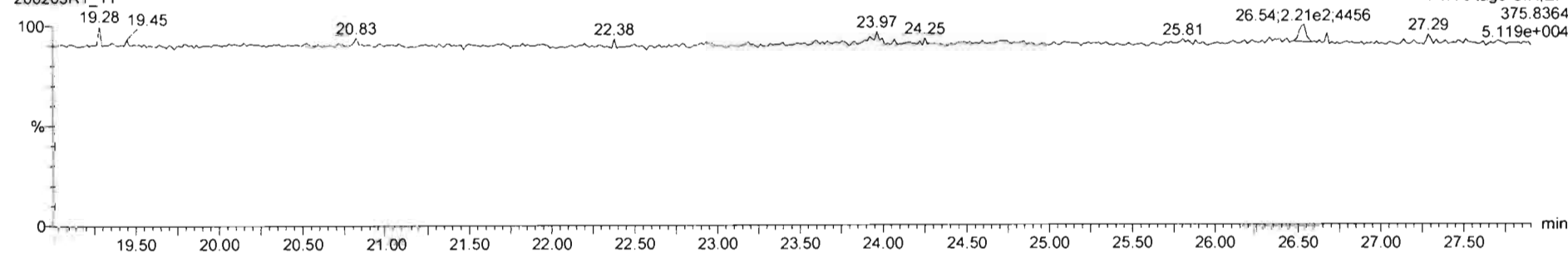


200203R1_11



DPE1

200203R1_11



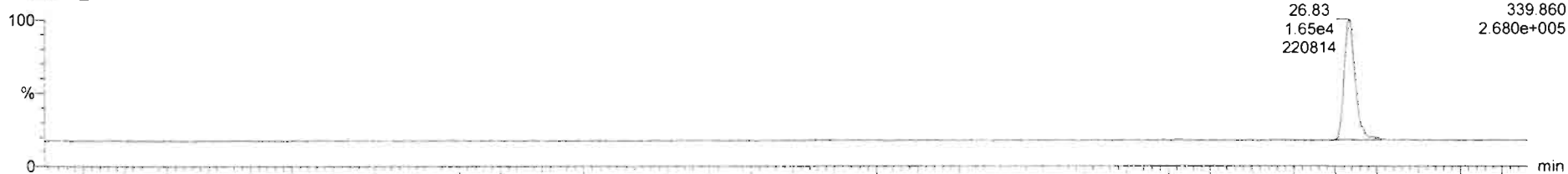
Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

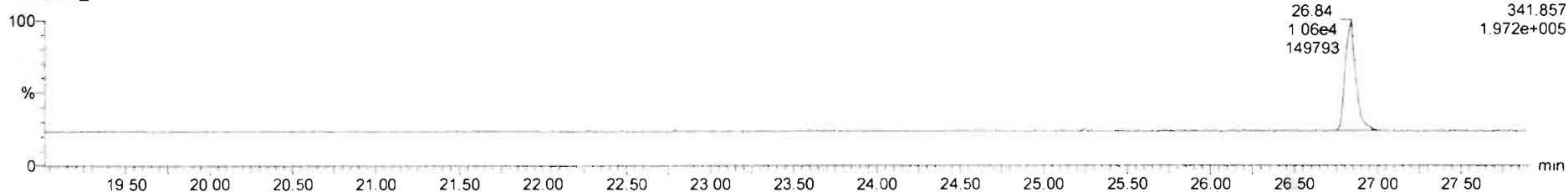
Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

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200203R1_11

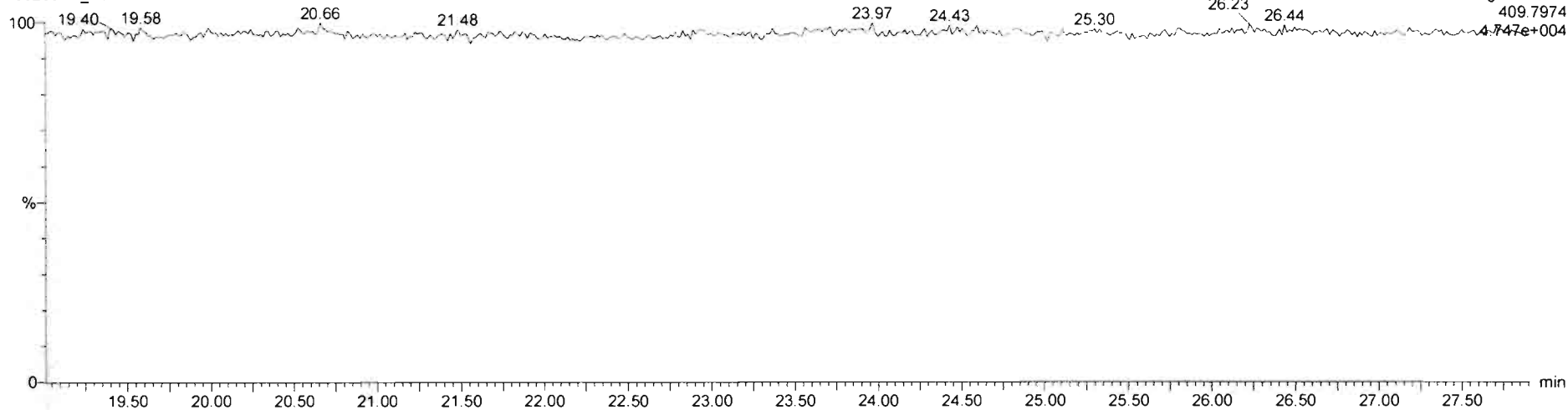


200203R1_11



DPE6

200203R1_11

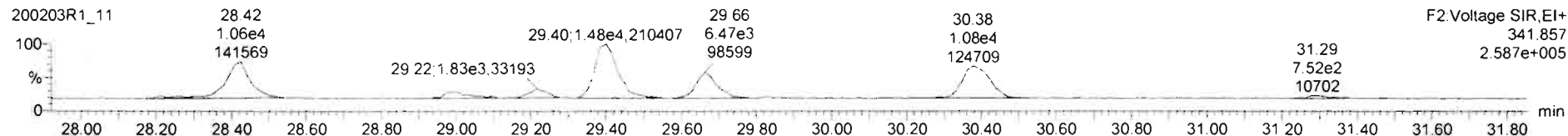
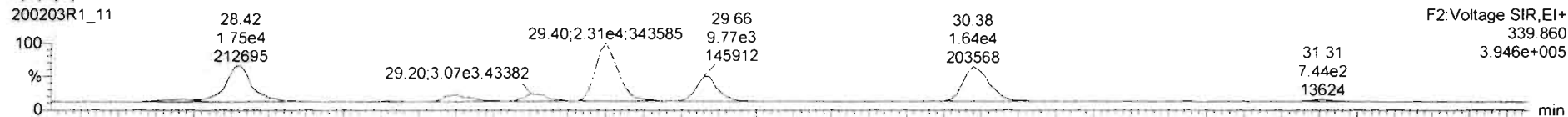


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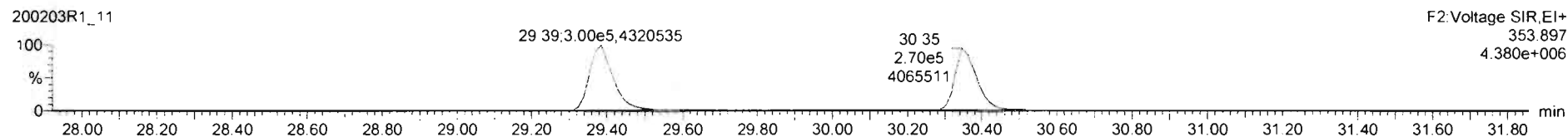
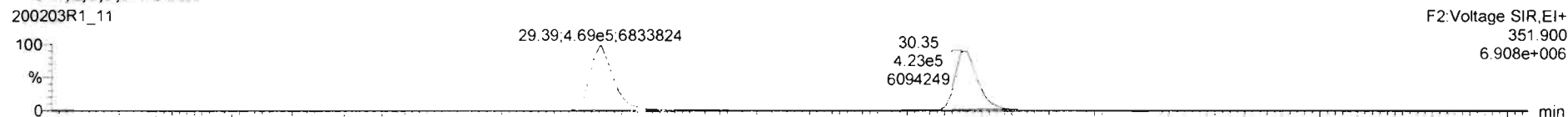
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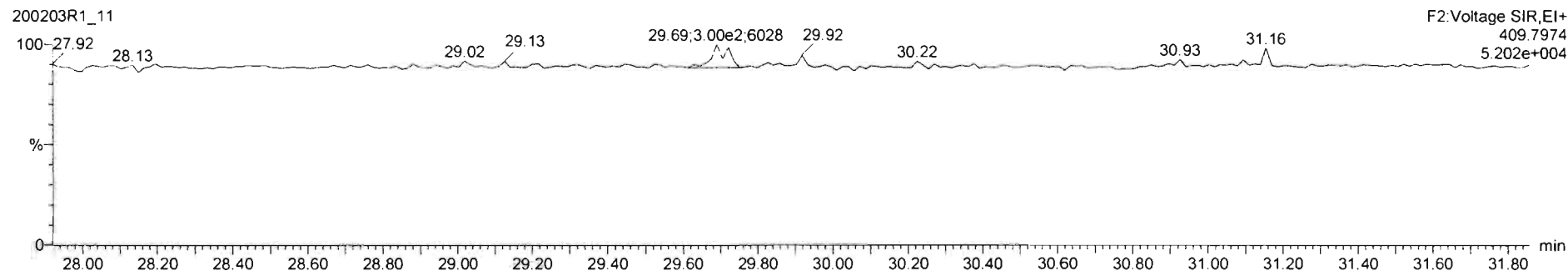
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2

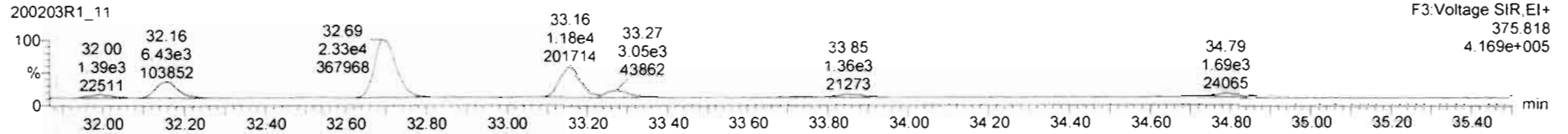
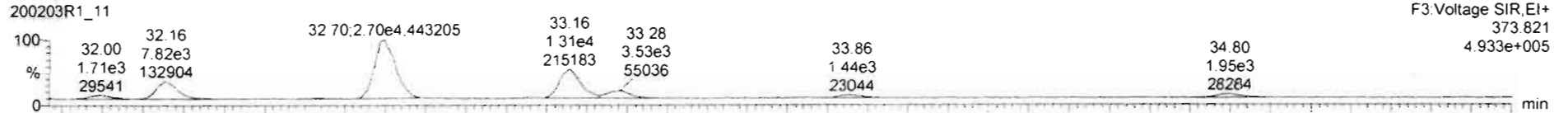


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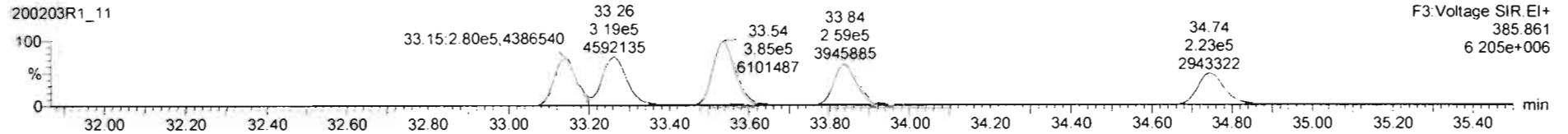
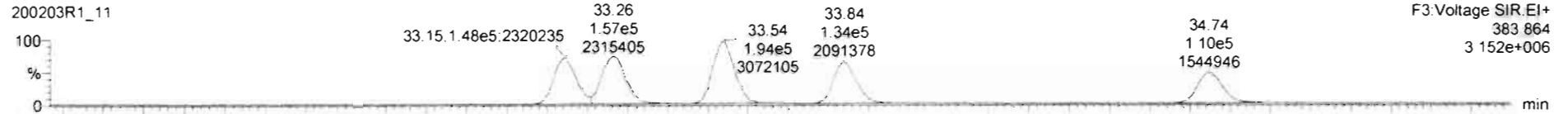
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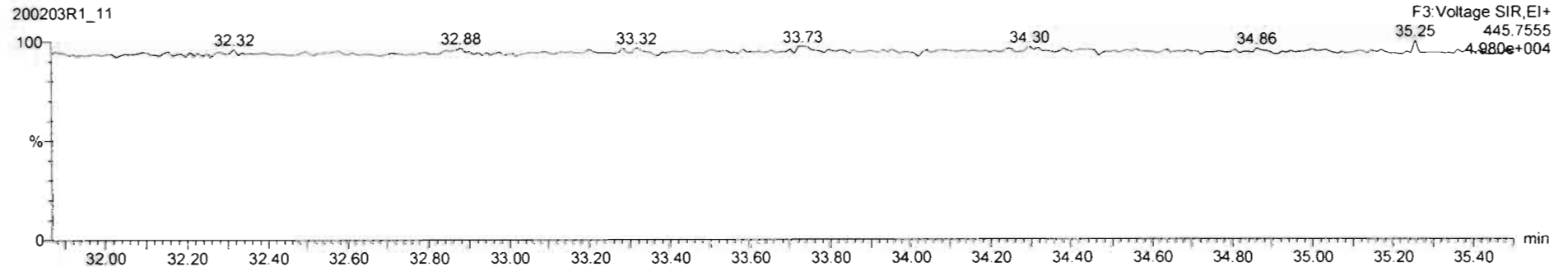
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



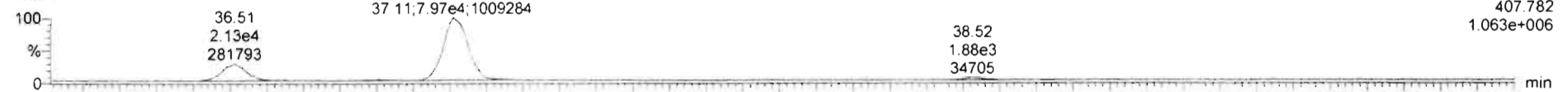
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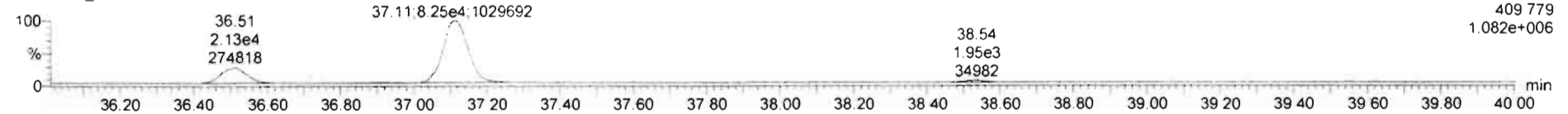
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1,2,3,4,6,7,8-HpCDF

200203R1_11

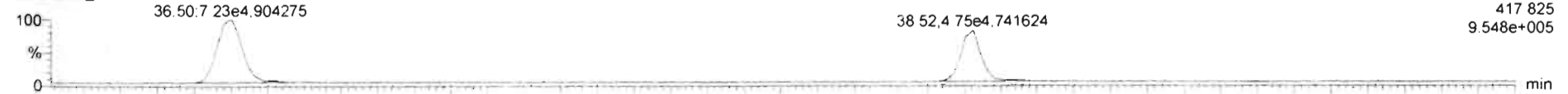


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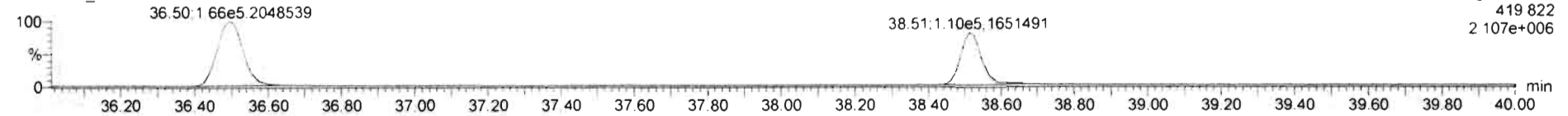


13C-1,2,3,4,6,7,8-HpCDF

200203R1_11

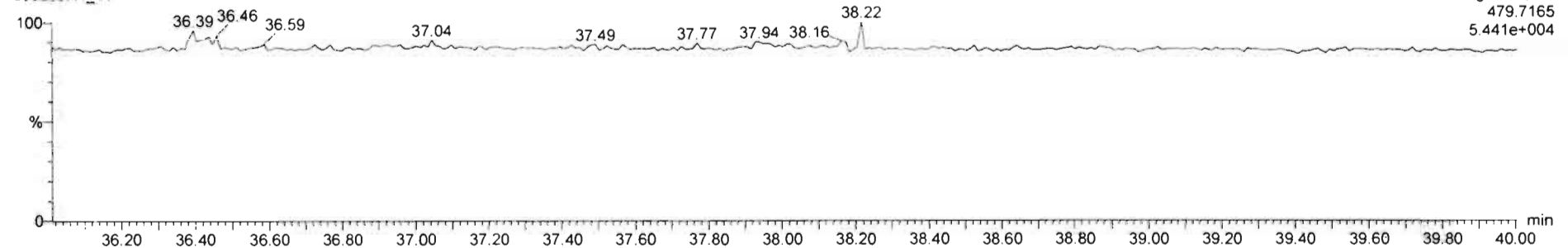


200203R1_11



DPE4

200203R1_11

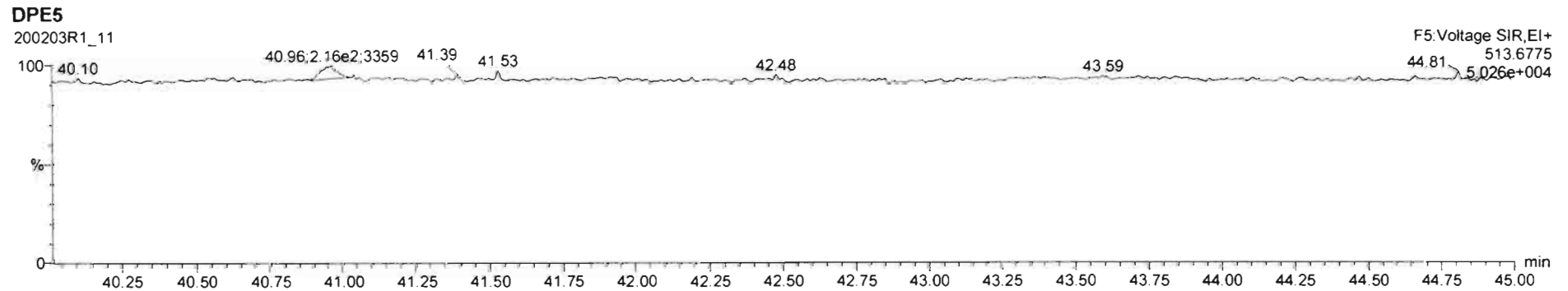
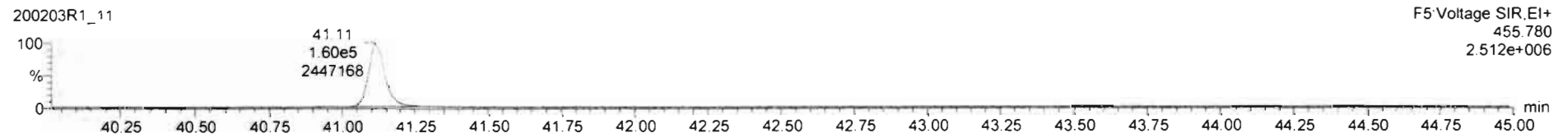
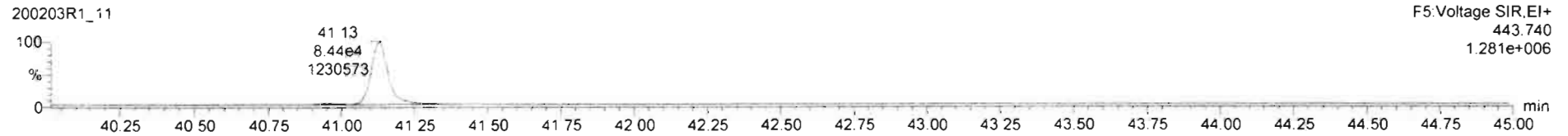
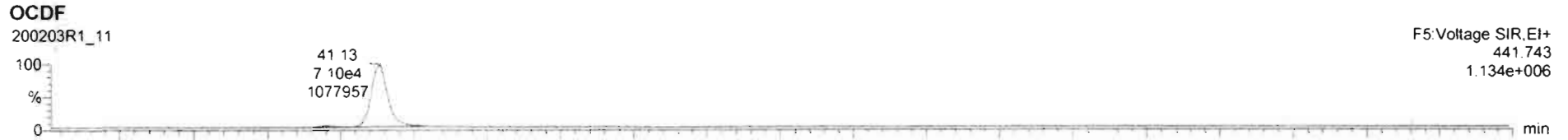


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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

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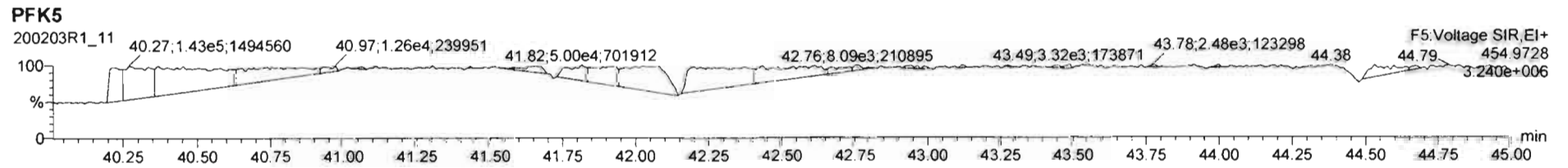
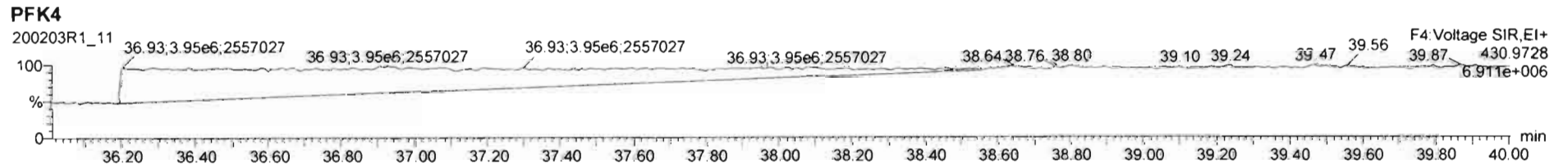
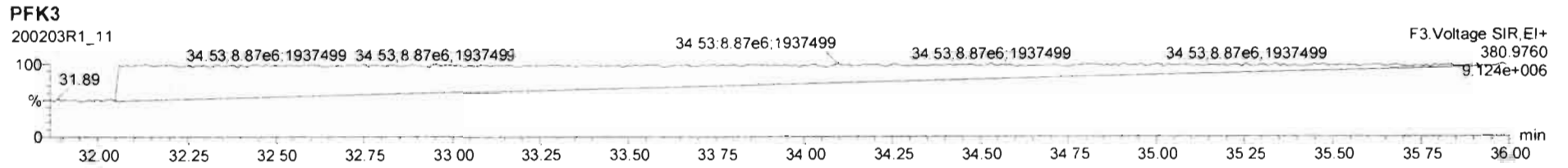
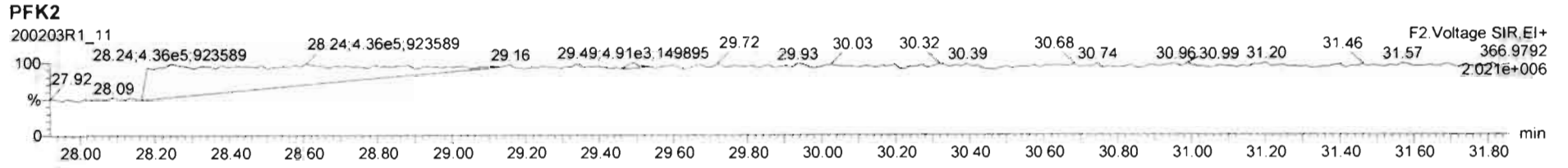
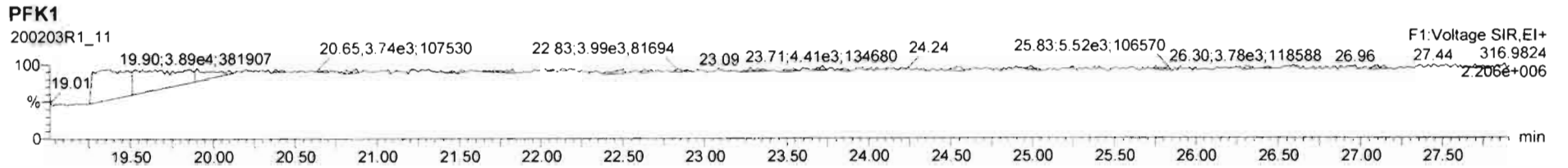


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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_11, Date: 03-Feb-2020, Time: 19:52:45, ID: 1903654-07@2X PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-12.qld

Last Altered: Friday, February 07, 2020 11:56:47 Pacific Standard Time
Printed: Friday, February 07, 2020 11:57:32 Pacific Standard Time

Hc 2.7.2020 C103/13/2020
** see dil*

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.06e4	0.76	NO	0.988	10.031	25.871	25.85	1.001	1.001	1.5279		0.122	1.53
2	2 1,2,3,7,8-PeCDD	2.25e4	0.63	NO	0.972	10.031	30.688	30.68	1.001	1.000	3.7058		0.254	3.71
3	3 1,2,3,4,7,8-HxCDD	5.19e4	1.25	NO	1.07	10.031	34.029	34.03	1.000	1.000	9.5446		0.741	9.54
4	4 1,2,3,6,7,8-HxCDD	4.29e5	1.24	NO	0.921	10.031	34.126	34.14	1.000	1.000	82.122		0.757	82.1
5	5 1,2,3,7,8,9-HxCDD	1.30e5	1.22	NO	0.918	10.031	34.437	34.41	1.001	1.000	25.262		0.762	25.3
6	6 1,2,3,4,6,7,8-HpCDD	2.31e7	1.00	NO	0.923	10.031	37.982	37.98	1.000	1.000	5212.7	<i>EX</i>	2.91	5210
7	7 OCDD	1.19e8	0.88	NO	0.975	10.031	41.091	41.10	1.000	1.000	34787	<i>EX</i>	1.27	34800
8	8 2,3,7,8-TCDF	4.52e5	0.75	NO	0.802	10.031	24.967	24.97	1.001	1.001	67.763	<i>(64.5)</i>	0.155	67.8
9	9 1,2,3,7,8-PeCDF	8.77e5	1.54	NO	0.907	10.031	29.452	29.45	1.001	1.001	110.36		0.253	110
10	10 2,3,4,7,8-PeCDF	3.30e5	1.50	NO	0.952	10.031	30.374	30.39	1.000	1.001	41.341		0.219	41.3
11	11 1,2,3,4,7,8-HxCDF	8.92e5	1.17	NO	0.862	10.031	33.157	33.17	1.000	1.000	164.02		0.319	164
12	12 1,2,3,6,7,8-HxCDF	2.48e5	1.17	NO	0.841	10.031	33.284	33.28	1.000	1.000	45.290		0.304	45.3
13	13 2,3,4,6,7,8-HxCDF	9.14e4	1.20	NO	0.898	10.031	33.883	33.87	1.001	1.001	17.032		0.353	17.0
14	14 1,2,3,7,8,9-HxCDF	1.98e4	1.07	NO	0.858	10.031	34.754	34.78	1.000	1.001	4.2950		0.426	4.29
15	15 1,2,3,4,6,7,8-HpCDF	9.88e5	0.98	NO	0.851	10.031	36.559	36.54	1.001	1.001	258.98		0.702	259
16	16 1,2,3,4,7,8,9-HpCDF	1.32e5	0.99	NO	0.980	10.031	38.556	38.57	1.000	1.000	39.828		0.750	39.8
17	17 OCDF	3.90e6	0.85	NO	0.806	10.031	41.272	41.28	1.000	1.000	1336.2		0.416	1340
18	18 13C-2,3,7,8-TCDD	1.39e6	0.78	NO	1.20	10.031	25.814	25.84	1.026	1.027	121.34	60.9	0.145	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.63	NO	0.967	10.031	30.578	30.67	1.215	1.219	134.29	67.4	0.239	
20	20 13C-1,2,3,4,7,8-HxCDD	1.01e6	1.26	NO	0.874	10.031	34.010	34.02	1.014	1.014	129.55	65.0	0.291	
21	21 13C-1,2,3,6,7,8-HxCDD	1.13e6	1.28	NO	1.05	10.031	34.110	34.13	1.017	1.017	120.99	60.7	0.244	
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.25	NO	0.974	10.031	34.412	34.40	1.026	1.026	128.18	64.3	0.261	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.57e5	1.06	NO	0.747	10.031	37.967	37.97	1.132	1.132	143.18	71.8	0.292	
24	24 13C-OCDD	1.40e6	0.91	NO	0.707	10.031	40.852	41.09	1.218	1.225	221.40	55.5	0.248	
25	25 13C-2,3,7,8-TCDF	1.66e6	0.77	NO	1.07	10.031	24.991	24.94	0.993	0.991	109.67	55.0	0.259	
26	26 13C-1,2,3,7,8-PeCDF	1.75e6	1.58	NO	1.00	10.031	29.345	29.43	1.166	1.169	122.79	61.6	0.353	
27	27 13C-2,3,4,7,8-PeCDF	1.67e6	1.58	NO	0.962	10.031	30.301	30.38	1.204	1.207	122.53	61.5	0.368	
28	28 13C-1,2,3,4,7,8-HxCDF	1.26e6	0.51	NO	1.05	10.031	33.138	33.16	0.988	0.989	133.91	67.2	0.302	
29	29 13C-1,2,3,6,7,8-HxCDF	1.30e6	0.52	NO	1.19	10.031	33.238	33.27	0.991	0.992	122.04	61.2	0.267	
30	30 13C-2,3,4,6,7,8-HxCDF	1.19e6	0.51	NO	1.07	10.031	33.845	33.85	1.009	1.009	124.87	62.6	0.297	
31	31 13C-1,2,3,7,8,9-HxCDF	1.07e6	0.51	NO	0.922	10.031	34.747	34.75	1.036	1.036	130.06	65.2	0.344	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-12.qld

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Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.94e5	0.44	NO	0.767	10.031	36.492	36.52	1.088	1.089	130.30	65.4	0.273	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.75e5	0.42	NO	0.552	10.031	38.504	38.56	1.148	1.150	136.56	68.5	0.379	
34	34 13C-OCDF	1.45e6	0.87	NO	0.789	10.031	41.087	41.27	1.225	1.231	204.77	51.4	0.178	
35	35 37Cl-2,3,7,8-TCDD	5.52e5			1.18	10.031	25.847	25.85	1.027	1.027	48.984	61.4	0.0568	
36	36 13C-1,2,3,4-TCDD	1.91e6	0.79	NO	1.00	10.031	25.080	25.17	1.000	1.000	199.38	100	0.174	
37	37 13C-1,2,3,4-TCDF	2.83e6	0.79	NO	1.00	10.031	23.420	23.57	1.000	1.000	199.38	100	0.276	
38	38 13C-1,2,3,4,6,9-HxCDF	1.78e6	0.51	NO	1.00	10.031	33.520	33.54	1.000	1.000	199.38	100	0.317	
39	39 Total Tetra-Dioxins				0.988	10.031	24.620		0.000		41.615		0.122	41.8
40	40 Total Penta-Dioxins				0.972	10.031	29.960		0.000		98.069		0.254	98.1
41	41 Total Hexa-Dioxins				0.921	10.031	33.635		0.000		1244.6		0.790	1240
42	42 Total Hepta-Dioxins				0.923	10.031	37.640		0.000		12355		2.91	12400
43	43 Total Tetra-Furans				0.802	10.031	23.610		0.000		209.03		0.155	209
44	44 1st Func. Penta-Furans				0.907	10.031	27.090		0.000		57.496		0.0494	57.5
45	45 Total Penta-Furans				0.907	10.031	29.275		0.000		348.62		0.242	349
46	46 Total Hexa-Furans				0.898	10.031	33.555		0.000		477.28		0.334	478
47	47 Total Hepta-Furans				0.851	10.031	37.835		0.000		1315.0		0.772	1320

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Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.05	1.712e5	2.275e5	1.802e4	2.336e4	0.77	NO	4.138e4	5.9895	5.9895	0.122
2	Total Tetra-Dioxins	22.52	6.317e4	7.440e4	8.616e3	1.101e4	0.78	NO	1.962e4	2.8401	2.8401	0.122
3	Total Tetra-Dioxins	22.88	1.339e5	1.758e5	8.601e3	1.098e4	0.78	NO	1.958e4	2.8336	2.8336	0.122
4	Total Tetra-Dioxins	23.75	4.971e4	7.375e4	3.766e3	5.123e3	0.74	NO	8.889e3	1.2866	1.2866	0.122
5	Total Tetra-Dioxins	24.03	1.702e5	1.975e5	1.591e4	2.005e4	0.79	NO	3.597e4	5.2058	5.2058	0.122
6	Total Tetra-Dioxins	24.16	1.419e5	1.919e5	9.708e3	1.290e4	0.75	NO	2.261e4	3.2729	3.2729	0.122
7	Total Tetra-Dioxins	24.36	7.008e4	9.395e4	5.383e3	6.939e3	0.78	NO	1.232e4	1.7835	1.7835	0.122
8	Total Tetra-Dioxins	24.61	5.528e4	6.797e4	4.324e3	5.407e3	0.80	NO	9.731e3	1.4086	1.4086	0.122
9	Total Tetra-Dioxins	24.79	1.229e5	1.483e5	9.477e3	1.177e4	0.80	NO	2.125e4	3.0758	3.0758	0.122
10	Total Tetra-Dioxins	25.15	1.189e5	1.421e5	8.625e3	1.057e4	0.82	NO	1.920e4	2.7786	2.7786	0.122
11	Total Tetra-Dioxins	25.29	4.721e4	6.244e4	3.383e3	4.401e3	0.77	NO	7.784e3	1.1267	1.1267	0.122
12	Total Tetra-Dioxins	25.57	9.313e4	1.304e5	1.018e4	1.310e4	0.78	NO	2.328e4	3.3702	3.3702	0.122
13	Total Tetra-Dioxins	25.70	7.373e4	9.874e4	5.096e3	6.697e3	0.76	NO	1.179e4	1.7070	1.7070	0.122
14	2,3,7,8-TCDD	25.85	5.630e4	7.707e4	4.558e3	5.997e3	0.76	NO	1.056e4	1.5279	1.5279	0.122
15	Total Tetra-Dioxins	26.15	1.441e5	1.824e5	8.279e3	1.094e4	0.76	NO	1.922e4	2.7815	2.7815	0.122
16	Total Tetra-Dioxins	26.29	3.185e4	3.555e4	1.853e3	2.479e3	0.75	NO	4.332e3	0.62699	0.62699	0.122
17	Total Tetra-Dioxins	26.75	2.639e4	4.258e4	5.772e2	9.064e2	0.64	YES	0.000e0	0.00000	0.19204	0.122

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Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.52	7.723e5	1.259e6	5.685e4	9.396e4	0.61	NO	1.508e5	24.853	24.853	0.254
2	Total Penta-Dioxins	28.97	4.650e5	7.881e5	2.617e4	4.167e4	0.63	NO	6.784e4	11.179	11.179	0.254
3	Total Penta-Dioxins	29.48	3.758e5	5.834e5	2.257e4	3.419e4	0.66	NO	5.676e4	9.3531	9.3531	0.254
4	Total Penta-Dioxins	29.65	2.953e5	4.722e5	1.597e4	2.652e4	0.60	NO	4.249e4	7.0020	7.0020	0.254
5	Total Penta-Dioxins	29.74	2.703e5	3.911e5	1.440e4	2.225e4	0.65	NO	3.665e4	6.0389	6.0389	0.254
6	Total Penta-Dioxins	29.98	7.009e5	1.202e6	5.519e4	8.911e4	0.62	NO	1.443e5	23.779	23.779	0.254
7	Total Penta-Dioxins	30.27	1.320e5	1.956e5	7.103e3	1.160e4	0.61	NO	1.870e4	3.0822	3.0822	0.254
8	1,2,3,7,8-PeCDD	30.68	1.652e5	2.547e5	8.668e3	1.382e4	0.63	NO	2.249e4	3.7058	3.7058	0.254
9	Total Penta-Dioxins	30.76	2.630e5	4.142e5	1.331e4	2.027e4	0.66	NO	3.358e4	5.5339	5.5339	0.254
10	Total Penta-Dioxins	31.06	1.726e5	2.704e5	8.372e3	1.312e4	0.64	NO	2.149e4	3.5420	3.5420	0.254

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.54	2.958e7	2.447e7	1.490e6	1.214e6	1.23	NO	2.703e6	538.20	538.20	0.790
2	Total Hexa-Dioxins	33.10	2.966e6	2.471e6	1.549e5	1.249e5	1.24	NO	2.797e5	55.695	55.695	0.790
3	Total Hexa-Dioxins	33.35	1.941e7	1.575e7	1.296e6	1.058e6	1.22	NO	2.354e6	468.74	468.74	0.790
4	Total Hexa-Dioxins	33.47	1.463e6	1.194e6	9.130e4	7.366e4	1.24	NO	1.650e5	32.843	32.843	0.790
5	1,2,3,4,7,8-HxCDD	34.03	4.919e5	3.910e5	2.889e4	2.302e4	1.25	NO	5.191e4	9.5446	9.5446	0.741
6	1,2,3,6,7,8-HxCDD	34.14	4.045e6	3.321e6	2.373e5	1.920e5	1.24	NO	4.294e5	82.122	82.122	0.757
7	Total Hexa-Dioxins	34.33	1.450e6	1.189e6	8.841e4	7.339e4	1.20	NO	1.618e5	32.213	32.213	0.790
8	1,2,3,7,8,9-HxCDD	34.41	1.235e6	9.881e5	7.155e4	5.842e4	1.22	NO	1.300e5	25.262	25.262	0.762

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.94	1.874e8	1.853e8	1.595e7	1.570e7	1.02	NO	3.164e7	7142.1	7142.1	2.91
2	1,2,3,4,6,7,8-HpCDD	37.98	1.396e8	1.394e8	1.157e7	1.152e7	1.00	NO	2.309e7	5212.7	5212.7	2.91

Quantify Totals Report MassLynx 4.1 SCN815

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Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.87	1.727e4	2.482e4	1.466e3	2.024e3	0.72	NO	3.491e3	0.52316	0.52316	0.155
2	Total Tetra-Furans	20.41	7.694e4	1.064e5	6.283e3	8.729e3	0.72	NO	1.501e4	2.2497	2.2497	0.155
3	Total Tetra-Furans	21.03	4.313e5	6.078e5	4.095e4	5.505e4	0.74	NO	9.600e4	14.387	14.387	0.155
4	Total Tetra-Furans	21.59	6.977e4	1.024e5	1.046e4	1.438e4	0.73	NO	2.484e4	3.7234	3.7234	0.155
5	Total Tetra-Furans	22.01	3.690e5	4.877e5	3.828e4	5.085e4	0.75	NO	8.914e4	13.359	13.359	0.155
6	Total Tetra-Furans	22.53	1.504e5	1.998e5	2.290e4	3.097e4	0.74	NO	5.387e4	8.0729	8.0729	0.155
7	Total Tetra-Furans	22.83	1.421e5	1.876e5	5.350e3	7.935e3	0.67	NO	1.328e4	1.9910	1.9910	0.155
8	Total Tetra-Furans	23.22	1.744e4	2.357e4	1.142e3	1.839e3	0.62	YES	0.000e0	0.00000	0.39355	0.155
9	Total Tetra-Furans	23.30	3.936e4	5.473e4	2.916e3	3.953e3	0.74	NO	6.869e3	1.0294	1.0294	0.155
10	Total Tetra-Furans	23.49	2.181e5	3.158e5	1.877e4	2.614e4	0.72	NO	4.490e4	6.7298	6.7298	0.155
11	Total Tetra-Furans	23.58	2.300e5	3.075e5	2.053e4	2.691e4	0.76	NO	4.745e4	7.1106	7.1106	0.155
12	Total Tetra-Furans	24.09	3.730e6	5.041e6	1.794e5	2.390e5	0.75	NO	4.183e5	62.693	62.693	0.155
13	Total Tetra-Furans	24.33	9.038e4	1.170e5	7.084e3	8.939e3	0.79	NO	1.602e4	2.4013	2.4013	0.155
14	Total Tetra-Furans	24.52	1.873e4	2.715e4	1.419e3	1.932e3	0.73	NO	3.350e3	0.50212	0.50212	0.155
15	Total Tetra-Furans	24.73	5.777e4	6.538e4	3.677e3	4.673e3	0.79	NO	8.350e3	1.2514	1.2514	0.155
16	Total Tetra-Furans	24.85	2.906e5	4.033e5	1.920e4	2.535e4	0.76	NO	4.455e4	6.6769	6.6769	0.155
17	2,3,7,8-TCDF	24.97	2.351e6	3.207e6	1.932e5	2.589e5	0.75	NO	4.522e5	67.763	67.763	0.155
18	Total Tetra-Furans	25.33	1.824e5	2.501e5	1.181e4	1.598e4	0.74	NO	2.779e4	4.1648	4.1648	0.155
19	Total Tetra-Furans	25.57	1.066e4	2.289e4	9.880e2	1.395e3	0.71	NO	2.383e3	0.35719	0.35719	0.155
20	Total Tetra-Furans	25.89	1.302e4	1.270e4	7.610e2	9.580e2	0.79	NO	1.719e3	0.25762	0.25762	0.155
21	Total Tetra-Furans	26.42	7.485e4	1.019e5	4.907e3	6.055e3	0.81	NO	1.096e4	1.6428	1.6428	0.155
22	Total Tetra-Furans	26.59	7.700e4	9.610e4	5.011e3	6.283e3	0.80	NO	1.129e4	1.6926	1.6926	0.155
23	Total Tetra-Furans	26.90	7.163e4	9.619e4	1.336e3	1.673e3	0.80	NO	3.010e3	0.45105	0.45105	0.155

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.99	3.958e6	2.459e6	2.754e5	1.720e5	1.60	NO	4.474e5	57.496	57.496	0.0494

Quantify Totals Report MassLynx 4.1 SCN815

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Dataset: U:\VG12.PRO\Results\200202R1\200202R1-12.qld

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Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.32	2.922e5	1.783e5	2.232e4	1.377e4	1.62	NO	3.609e4	4.6379	4.6379	0.242
2	Total Penta-Furans	28.45	5.262e6	3.467e6	3.507e5	2.275e5	1.54	NO	5.782e5	74.313	74.313	0.242
3	Total Penta-Furans	29.03	8.017e5	5.423e5	5.938e4	3.880e4	1.53	NO	9.818e4	12.618	12.618	0.242
4	Total Penta-Furans	29.25	1.568e6	1.052e6	8.730e4	5.744e4	1.52	NO	1.447e5	18.602	18.602	0.242
5	1,2,3,7,8-PeCDF	29.45	9.875e6	6.361e6	5.318e5	3.452e5	1.54	NO	8.771e5	110.36	110.36	0.253
6	Total Penta-Furans	29.69	4.268e6	2.705e6	2.221e5	1.428e5	1.55	NO	3.649e5	46.893	46.893	0.242
7	Total Penta-Furans	30.18	3.281e4	2.591e4	1.674e3	1.211e3	1.38	NO	2.886e3	0.37088	0.37088	0.242
8	Total Penta-Furans	30.29	1.384e5	9.019e4	6.589e3	4.023e3	1.64	NO	1.061e4	1.3638	1.3638	0.242
9	2,3,4,7,8-PeCDF	30.39	5.703e6	3.727e6	1.981e5	1.320e5	1.50	NO	3.301e5	41.341	41.341	0.219
10	Total Penta-Furans	30.41	5.602e6	3.624e6	1.694e5	1.090e5	1.55	NO	2.784e5	35.783	35.783	0.242
11	Total Penta-Furans	30.67	1.778e4	1.425e4	1.225e3	7.727e2	1.58	NO	1.997e3	0.25668	0.25668	0.242
12	Total Penta-Furans	31.31	3.835e5	2.769e5	9.521e3	6.723e3	1.42	NO	1.624e4	2.0876	2.0876	0.242

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.02	7.250e5	6.099e5	3.905e4	3.319e4	1.18	NO	7.224e4	13.310	13.310	0.334
2	Total Hexa-Furans	32.18	3.531e6	3.064e6	1.662e5	1.404e5	1.18	NO	3.065e5	56.474	56.474	0.334
3	Total Hexa-Furans	32.53	7.408e4	7.035e4	3.975e3	3.426e3	1.16	NO	7.401e3	1.3636	1.3636	0.334
4	Total Hexa-Furans	32.71	8.889e6	7.439e6	4.465e5	3.778e5	1.18	NO	8.243e5	151.86	151.86	0.334
5	Total Hexa-Furans	33.06	1.467e5	1.306e5	7.300e3	6.524e3	1.12	NO	1.382e4	2.5469	2.5469	0.334
6	1,2,3,4,7,8-HxCDF	33.17	9.193e6	7.826e6	4.808e5	4.108e5	1.17	NO	8.915e5	164.02	164.02	0.319
7	1,2,3,6,7,8-HxCDF	33.28	2.536e6	2.106e6	1.339e5	1.144e5	1.17	NO	2.482e5	45.290	45.290	0.304
8	Total Hexa-Furans	33.55	5.805e4	5.635e4	3.383e3	3.134e3	1.08	NO	6.517e3	1.2007	1.2007	0.334
9	Total Hexa-Furans	33.74	4.590e4	4.679e4	2.154e3	2.162e3	1.00	YES	0.000e0	0.00000	0.71694	0.334
10	2,3,4,6,7,8-HxCDF	33.87	8.711e5	7.214e5	4.985e4	4.153e4	1.20	NO	9.138e4	17.032	17.032	0.353
11	1,2,3,7,8,9-HxCDF	34.78	5.032e5	4.560e5	1.026e4	9.570e3	1.07	NO	1.983e4	4.2950	4.2950	0.426
12	Total Hexa-Furans	34.81	1.153e6	9.573e5	5.832e4	4.958e4	1.18	NO	1.079e5	19.879	19.879	0.334

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-12.qld

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Printed: Friday, February 07, 2020 11:57:32 Pacific Standard Time

Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.54	6.106e6	6.169e6	4.889e5	4.995e5	0.98	NO	9.885e5	258.98	258.98	0.702
2	Total Hepta-Furans	36.94	1.525e5	1.454e5	1.254e4	1.234e4	1.02	NO	2.488e4	7.4294	7.4294	0.772
3	Total Hepta-Furans	37.15	1.927e7	1.958e7	1.667e6	1.711e6	0.97	NO	3.378e6	1008.8	1008.8	0.772
4	1,2,3,4,7,8,9-HpCDF	38.57	8.828e5	9.077e5	6.580e4	6.626e4	0.99	NO	1.321e5	39.828	39.828	0.750

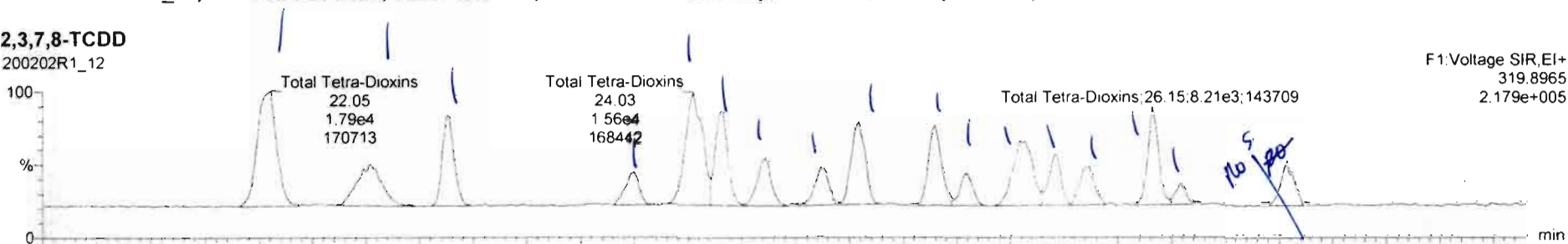
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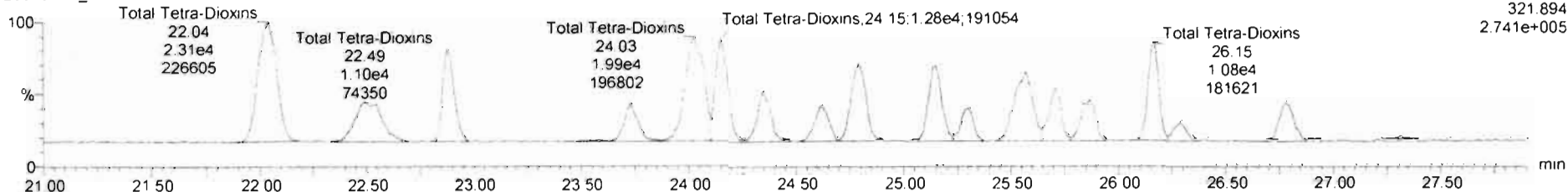
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2,3,7,8-TCDD

200202R1_12

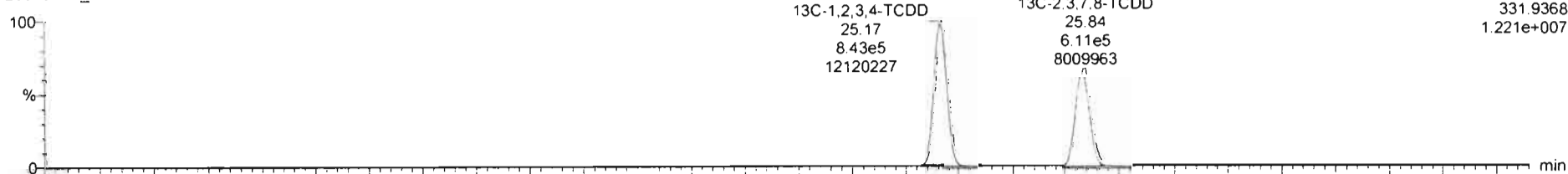


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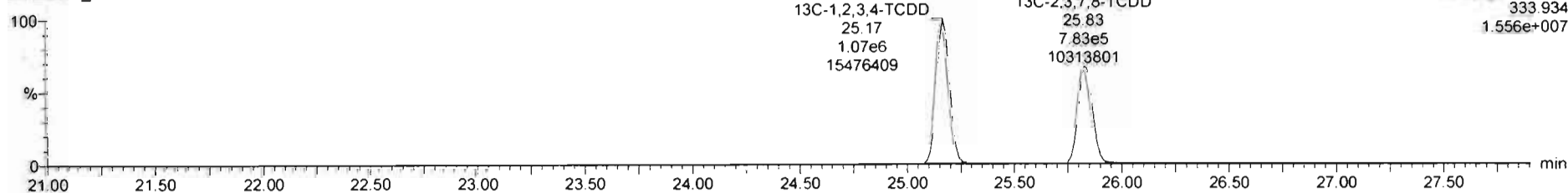


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200202R1_12



200202R1_12

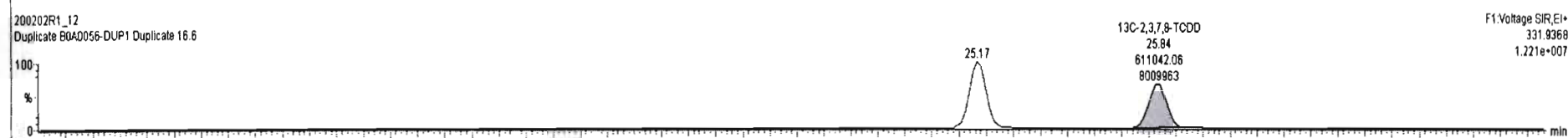
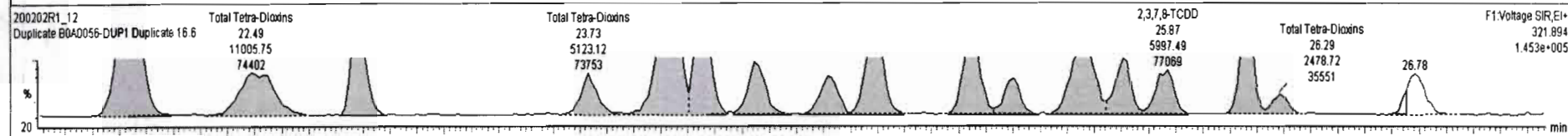
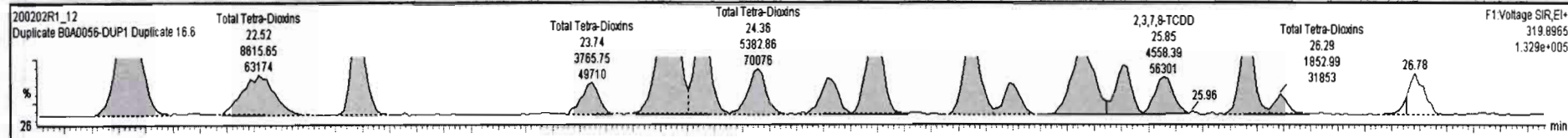




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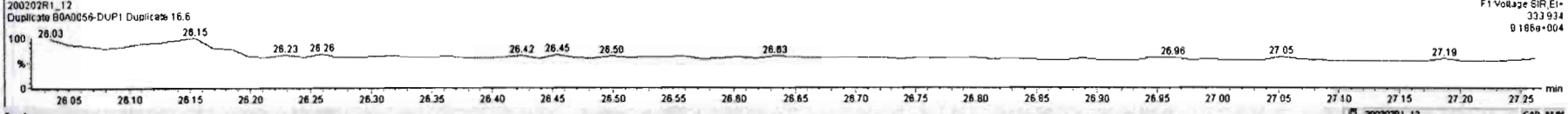
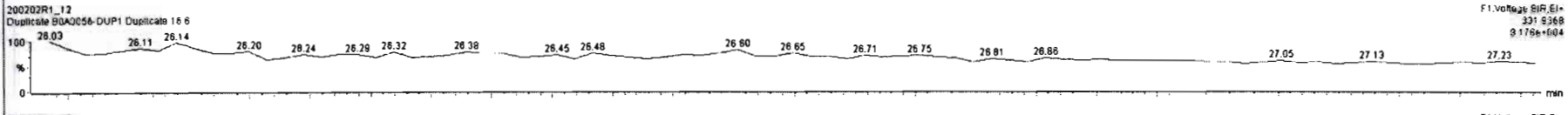
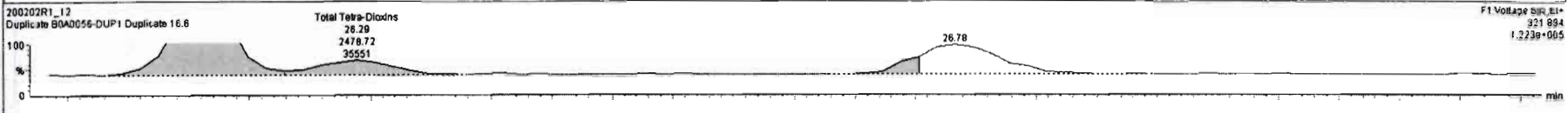
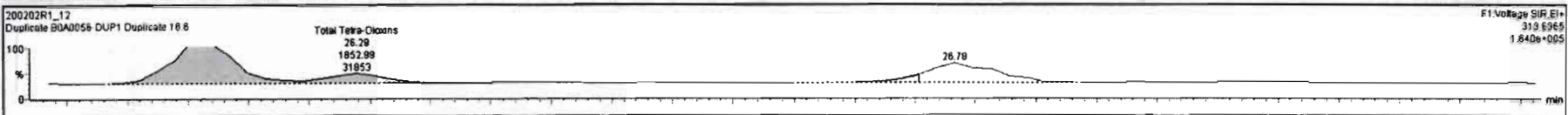
#	Name	Resp	RA	nly	RRF	wtAvol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.94e5	0.44	NO	0.7672	10.031	36.52	1.089	130	65.4	0.273	
33	13C-1,2,3,4,7,8-HpCDF	6.75e5	0.42	NO	0.5523	10.031	38.56	1.150	137	68.5	0.379	
34	13C-OCDF	1.45e6	0.87	NO	0.7894	10.031	41.27	1.231	205	51.4	0.178	
35	37Cl-2,3,7,8-TCDD	5.52e5			1.1763	10.031	25.85	1.027	49.0	61.4	0.0568	
36	13C-1,2,3,4-TCDD	1.91e6	0.79	NO	1.0000	10.031	25.17	1.000	199	100	0.174	
37	13C-1,2,3,4-TCDF	2.83e6	0.79	NO	1.0000	10.031	23.57	1.000	199	100	0.276	
38	13C-1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39	Total Tetra-Dioxins				0.9891	10.031			41.6	0.122	41.6	
40	Total Penta-Dioxins				0.9723	10.031			98.4	0.254	98.4	
41	Total Hexa-Dioxins				0.9211	10.031			1240	0.790	1240	
42	Total Hepta-Dioxins				0.9231	10.031			12400	2.91	12400	

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Dioxins	22.05	1.802e4	2.336e4	0.77	NO	5.9895	5.9895
2	Total Tetra-Dioxins	22.52	8.616e3	1.101e4	0.78	NO	2.8401	2.8401
3	Total Tetra-Dioxins	22.86	8.601e3	1.098e4	0.78	NO	2.8336	2.8336
4	Total Tetra-Dioxins	23.74	3.766e3	5.123e3	0.74	NO	1.2866	1.2866
5	Total Tetra-Dioxins	24.03	1.591e4	2.005e4	0.79	NO	5.2058	5.2058
6	Total Tetra-Dioxins	24.16	9.708e3	1.290e4	0.75	NO	3.2729	3.2729
7	Total Tetra-Dioxins	24.36	5.383e3	6.939e3	0.78	NO	1.7835	1.7835
8	Total Tetra-Dioxins	24.61	4.734e3	5.407e3	0.80	NO	1.4096	1.4096



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,4,6,7,8-HxCDF	8.94e5	0.44	NO	0.7872	10.031	36.52	1.089	130	65.4	0.273	
13C-1,2,3,4,7,8,9-HxCDF	6.75e5	0.42	NO	0.8520	10.031	38.58	1.150	137	68.5	0.379	
13C-OCDF	1.45e6	0.87	NO	0.7894	10.031	41.27	1.231	205	51.4	0.178	
3FC-2,3,7,8-TCDF	5.52e5			1.1783	10.031	25.85	1.027	49.0	81.4	0.0568	
13C-1,2,3,4-TCDF	1.91e6	0.78	NO	1.0000	10.031	25.17	1.000	199	100	0.174	
13C-1,2,3,4-TCDF	2.82e6	0.79	NO	1.0000	10.031	23.57	1.000	199	100	0.278	
13C-1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
Total Tetra-Dioxins				0.9891	10.031			41.6		0.122	41.8
Total Penta-Dioxins				0.9723	10.031			98.4		0.254	98.4
Total Hexa-Dioxins				0.8211	10.031			1240		0.790	1240
Total Hepta-Dioxins				0.8231	10.031			12400		2.91	12400

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
Total Tetra-Dioxins	22.05	1.802e4	2.336e4	0.77	NO	5.9895	5.9895
Total Tetra-Dioxins	22.52	8.616e3	1.101e4	0.78	NO	2.8401	2.8401
Total Tetra-Dioxins	22.88	8.601e3	1.098e4	0.78	NO	2.8338	2.8338
Total Tetra-Dioxins	23.74	3.789e3	5.123e3	0.74	NO	1.2866	1.2866
Total Tetra-Dioxins	24.03	1.591e4	2.005e4	0.79	NO	5.2058	5.2058
Total Tetra-Dioxins	24.16	9.708e3	1.290e4	0.75	NO	3.2729	3.2729
Total Tetra-Dioxins	24.36	5.389e3	6.839e3	0.78	NO	1.7835	1.7835
Total Tetra-Dioxins	24.81	4.104e3	5.407e3	0.80	NO	1.4098	1.4098



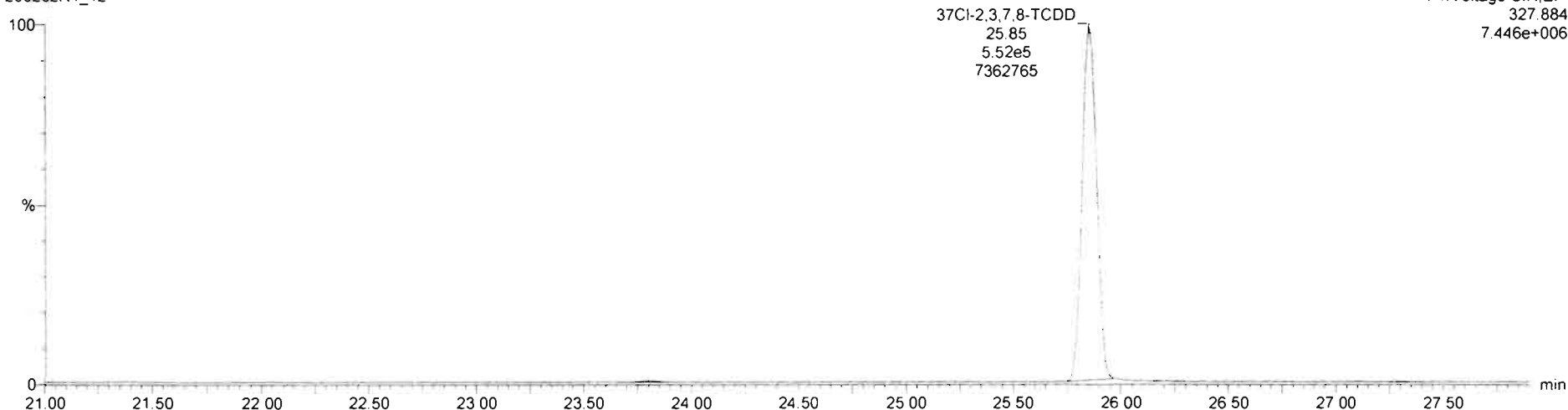
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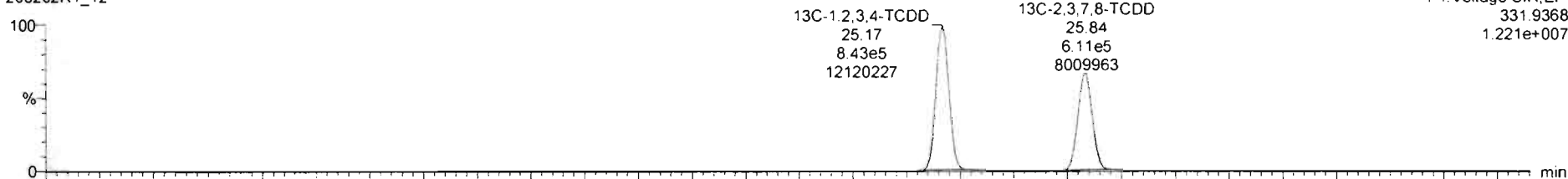
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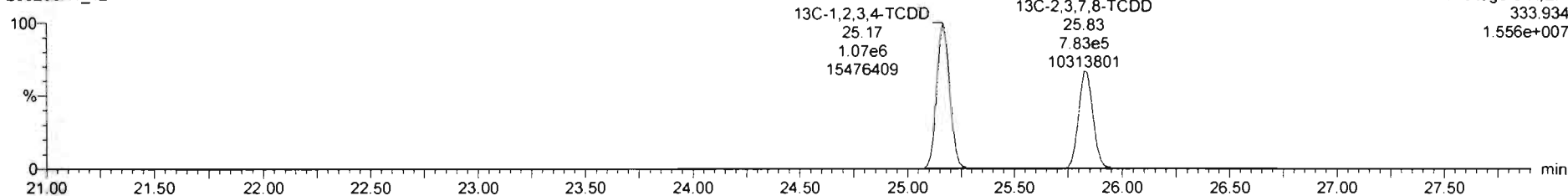


13C-1,2,3,4-TCDD

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200202R1_12



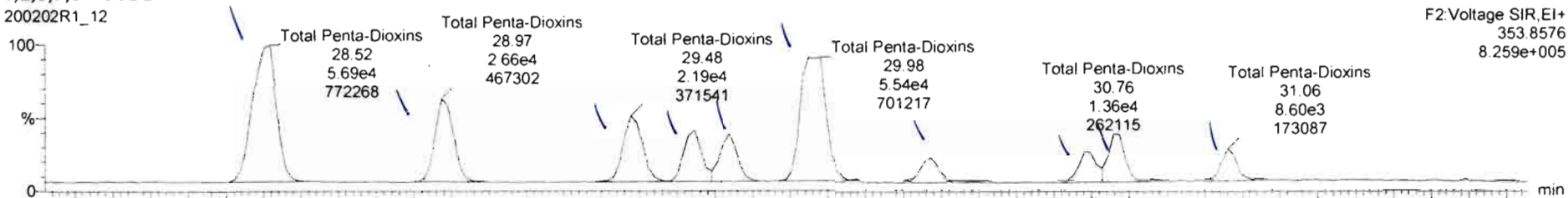
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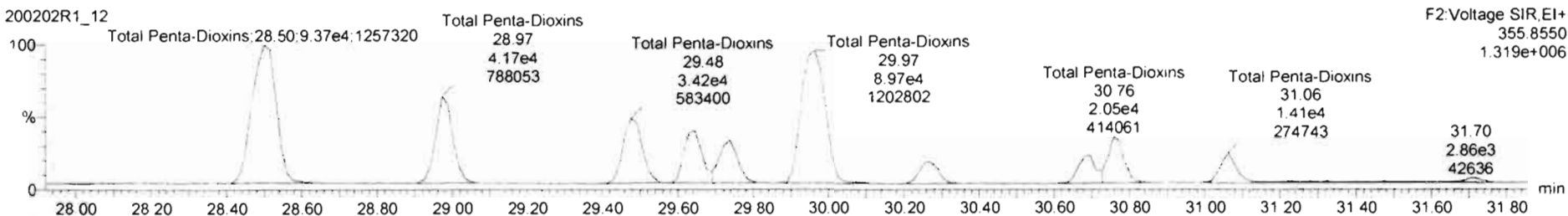
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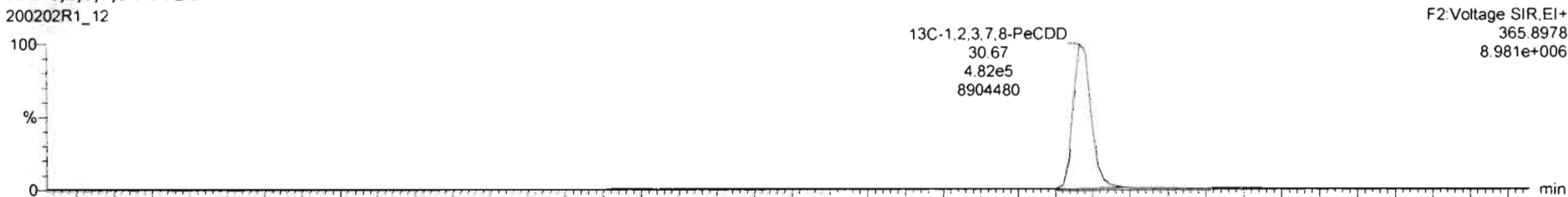


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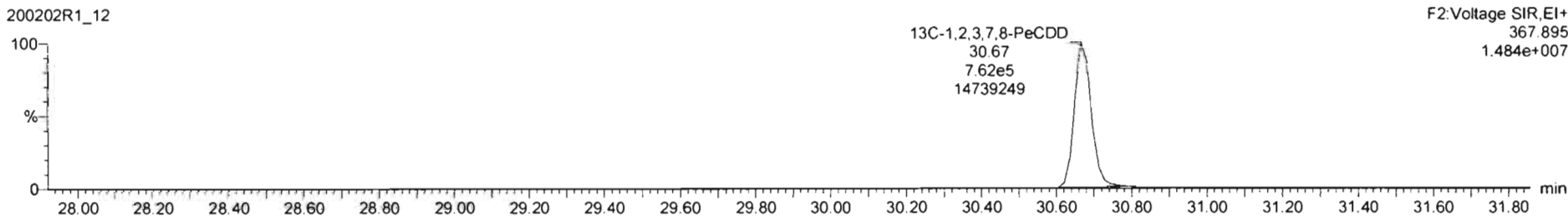


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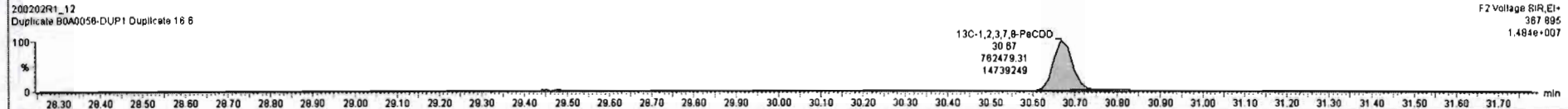
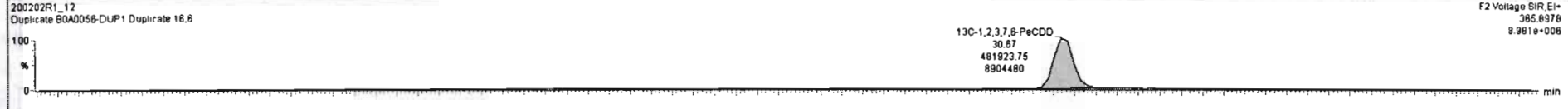
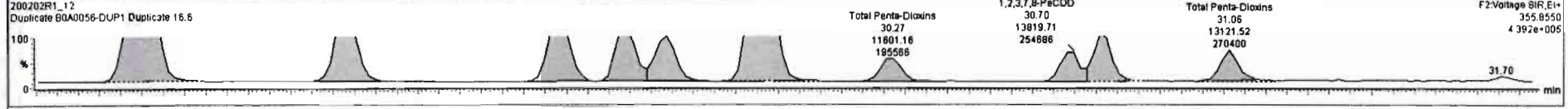
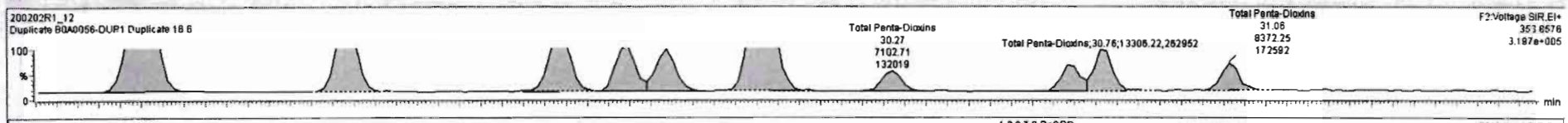


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Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.94e5	0.44	NO	0.7672	10.031	36.52	1.069	130	66.4	0.273
33	13C-1,2,3,4,7,8,9-HpCDF	6.75e5	0.42	NO	0.5523	10.031	38.56	1.150	137	68.5	0.379
34	13C-OCDF	1.45e6	0.87	NO	0.7894	10.031	41.27	1.231	205	51.4	0.176
35	37Cl-2,3,7,8-TCDD	5.52e5			1.1763	10.031	25.85	1.027	49.0	61.4	0.0568
36	13C-1,2,3,4-TCDD	1.91e6	0.79	NO	1.0000	10.031	25.17	1.000	199	100	0.174
37	13C-1,2,3,4-TCDF	2.83e6	0.79	NO	1.0000	10.031	23.57	1.000	199	100	0.276
38	13C-1,2,3,4,6,8-HpCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317
39	Total Tetra-Dioxins				0.9691	10.031			41.6		0.122
40	Total Penta-Dioxins				0.9723	10.031			98.1		0.254
41	Total Hexa-Dioxins				0.9211	10.031			1240		0.790
42	Total Hepta-Dioxins				0.9231	10.031			12400		2.91

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
4	Total Penta-Dioxins	29.85	1.597e4	2.852e4	0.60	NO	7.0020	7.0020
5	Total Penta-Dioxins	29.74	1.440e4	2.225e4	0.65	NO	6.0389	6.0389
6	Total Penta-Dioxins	29.98	5.519e4	8.911e4	0.62	NO	23.779	23.779
7	Total Penta-Dioxins	30.27	7.103e3	1.160e4	0.61	NO	3.0822	3.0822
8	1,2,3,7,8-PeCDD	30.88	8.668e3	1.382e4	0.63	NO	3.7058	3.7058
9	Total Penta-Dioxins	30.76	1.331e4	2.027e4	0.66	NO	5.5339	5.5339
10	Total Penta-Dioxins	31.06	8.372e3	1.312e4	0.64	NO	3.5420	3.5420



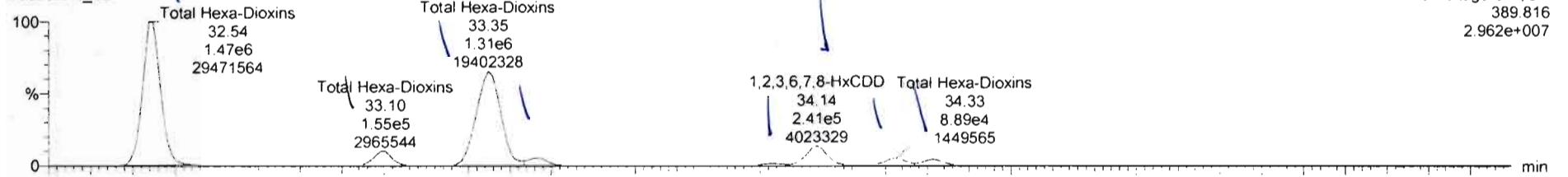
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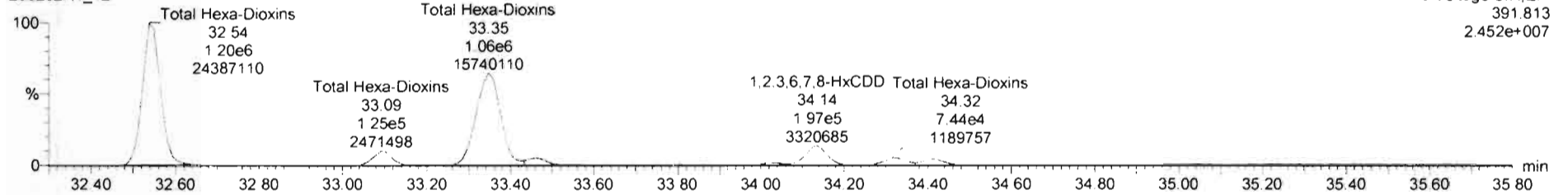
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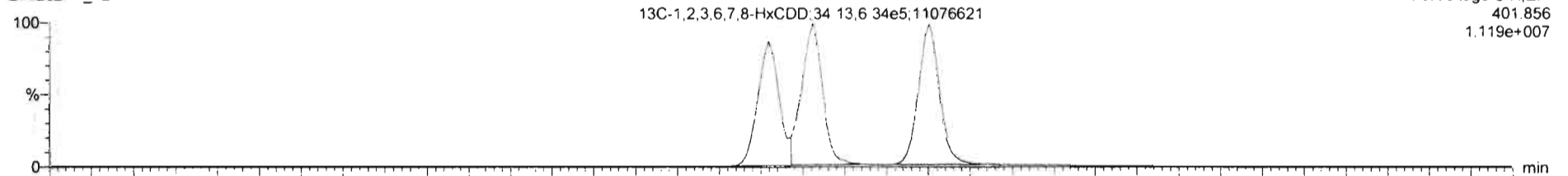


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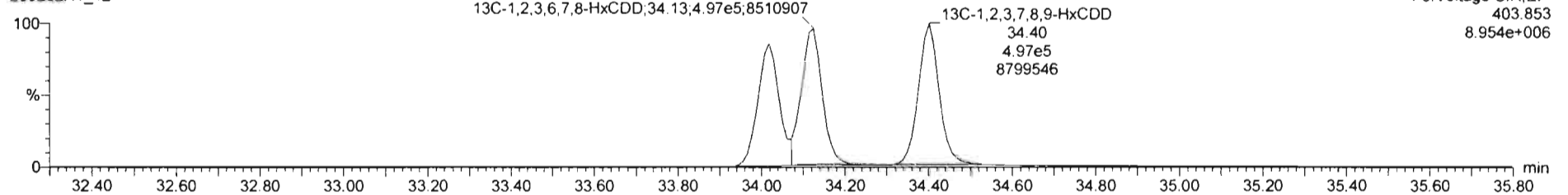


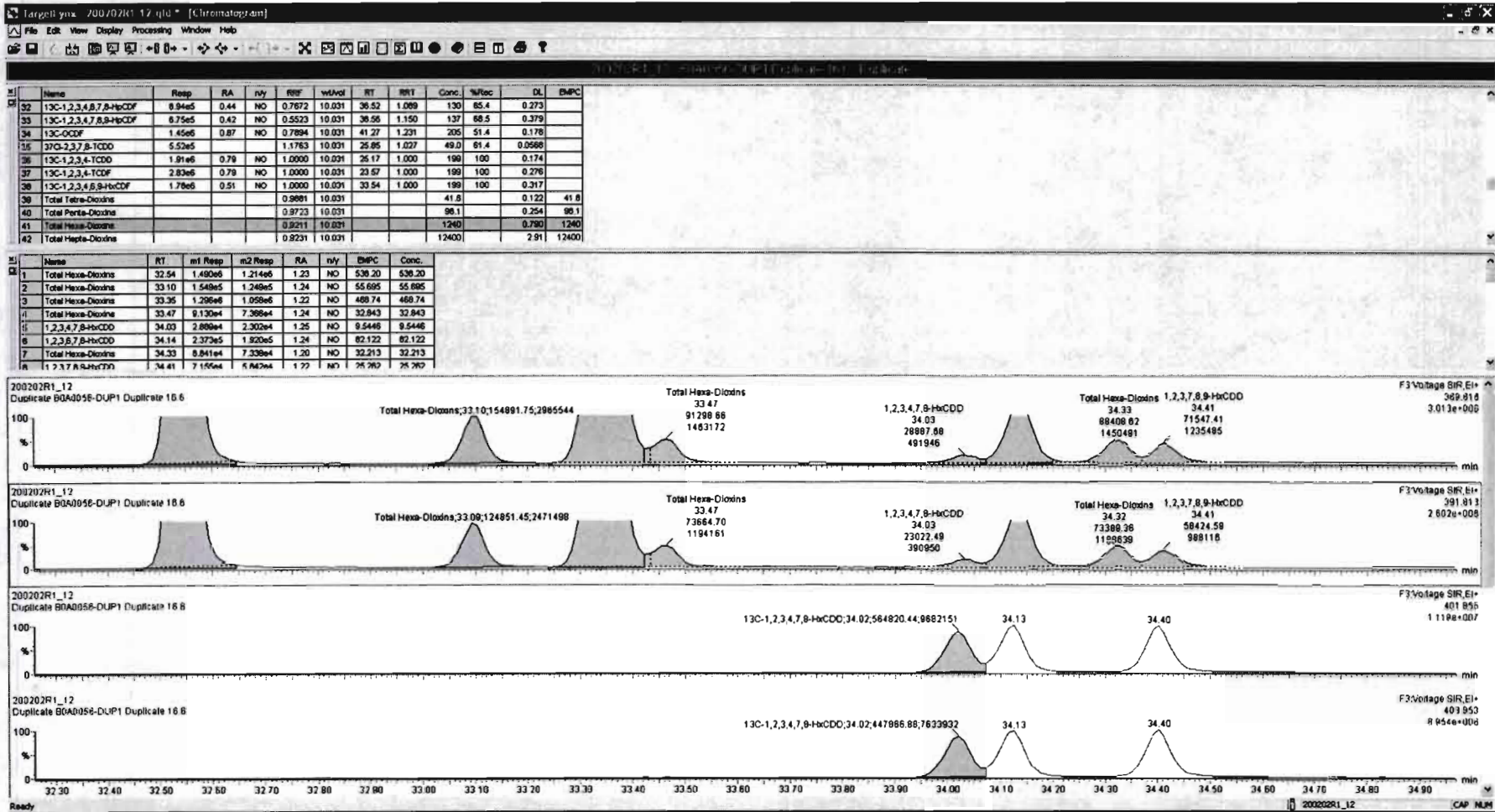
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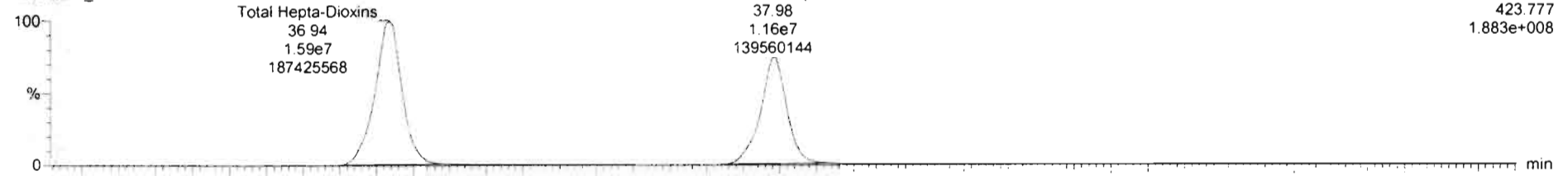
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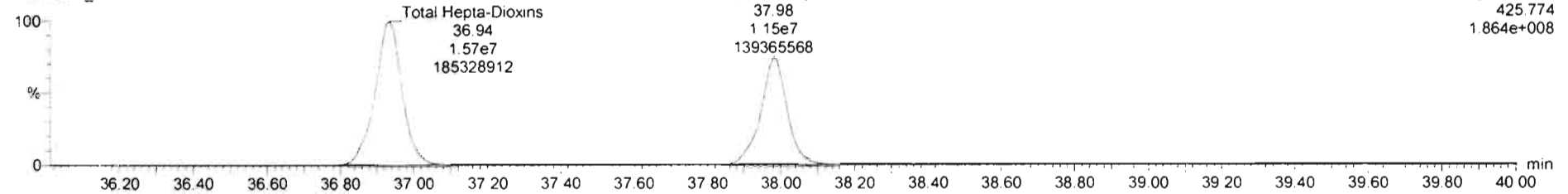
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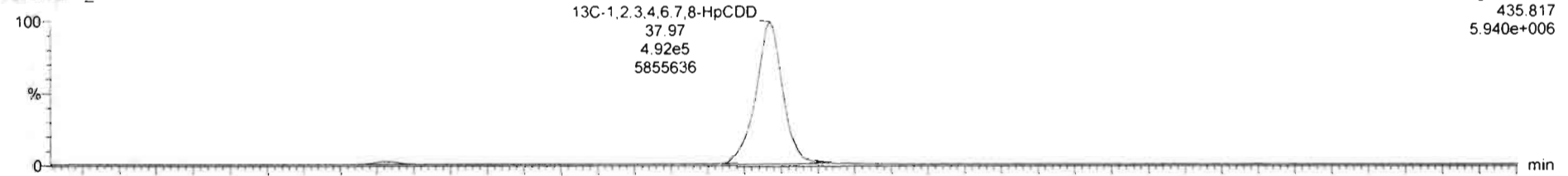


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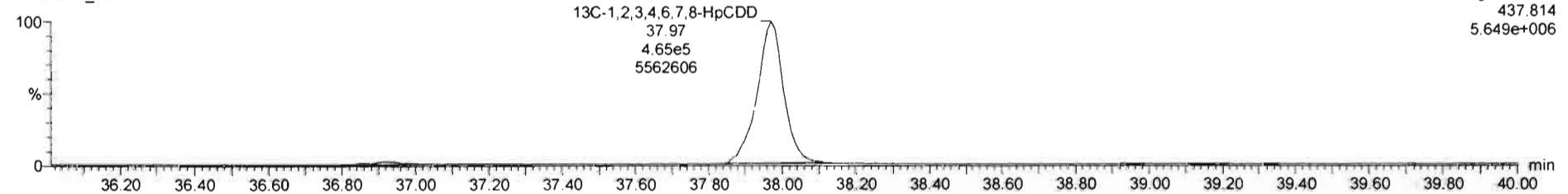


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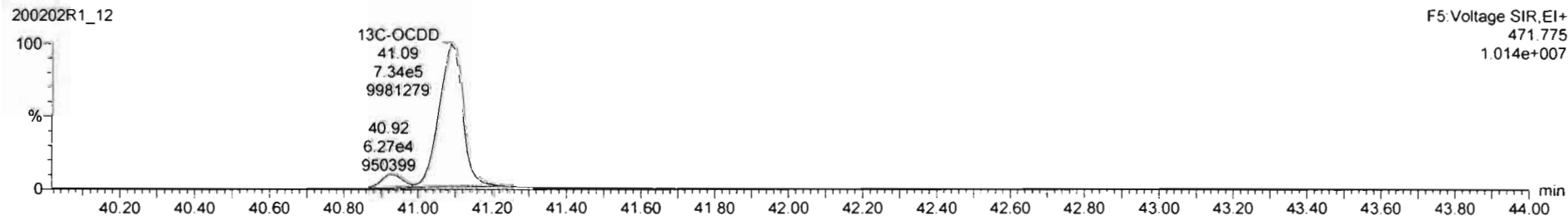
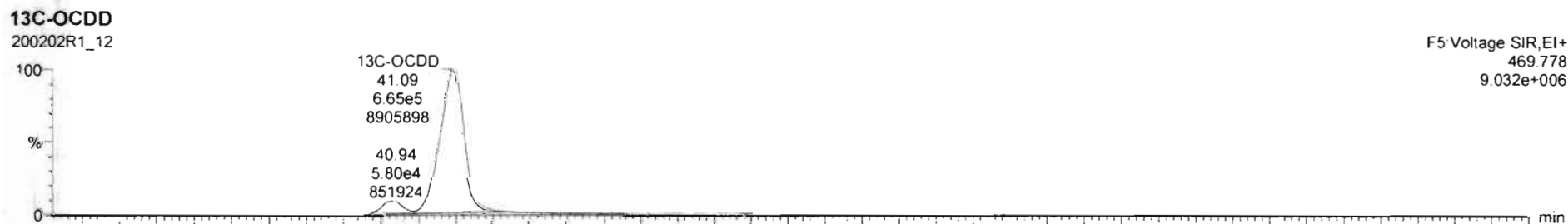
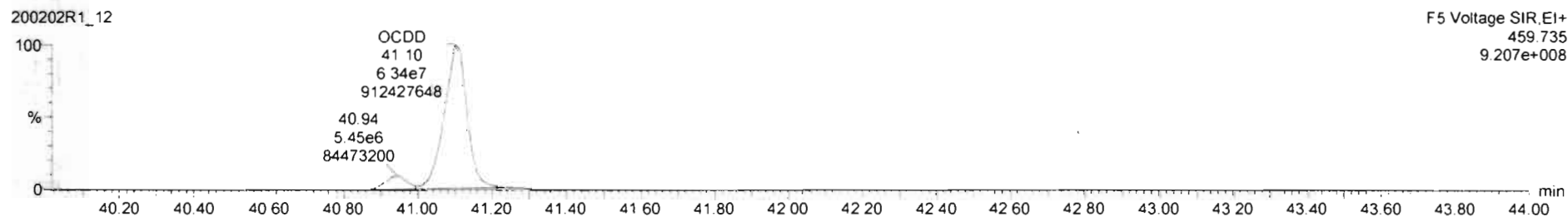


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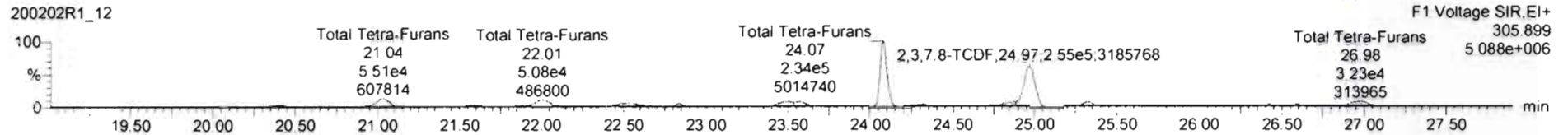
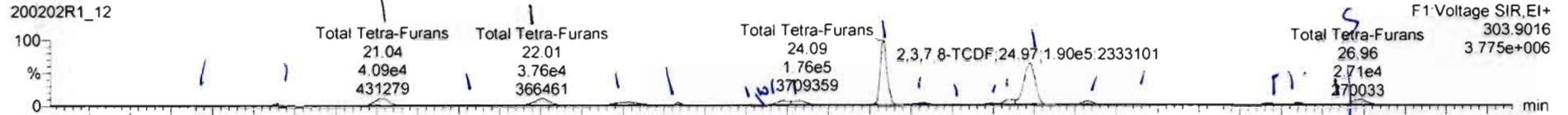


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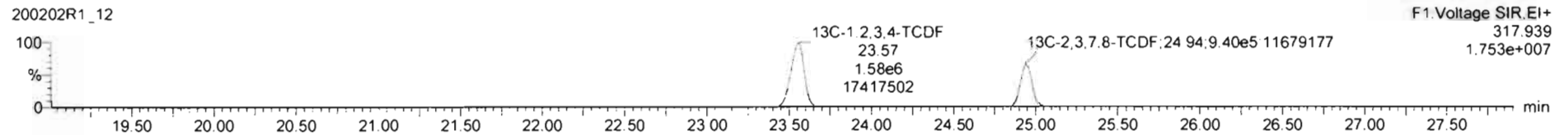
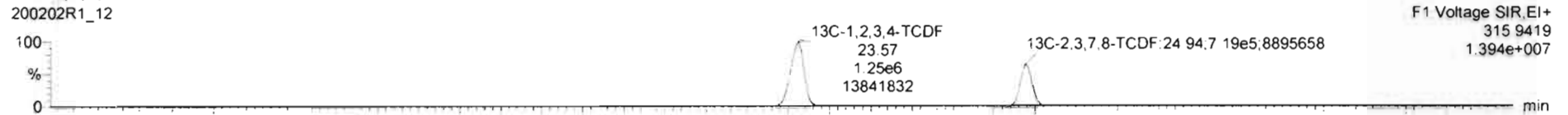
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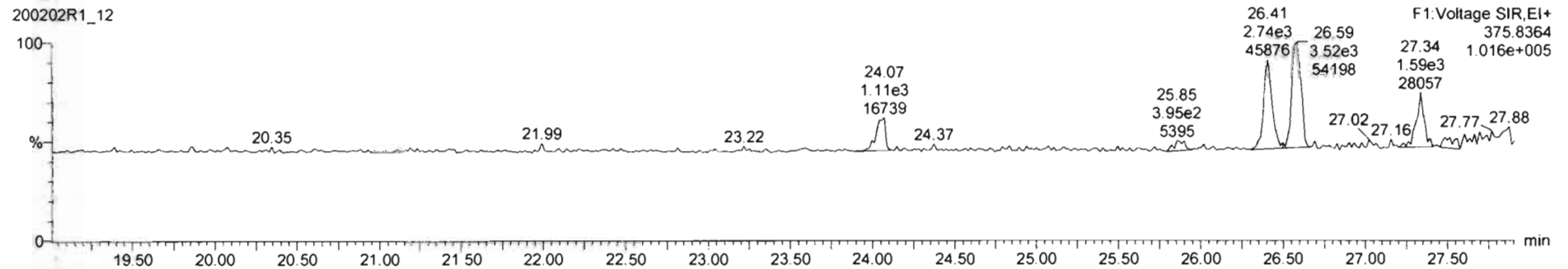
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1

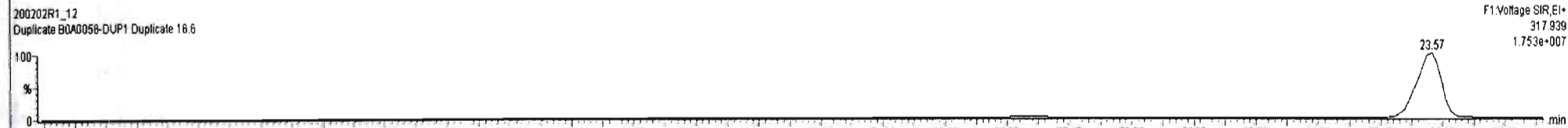
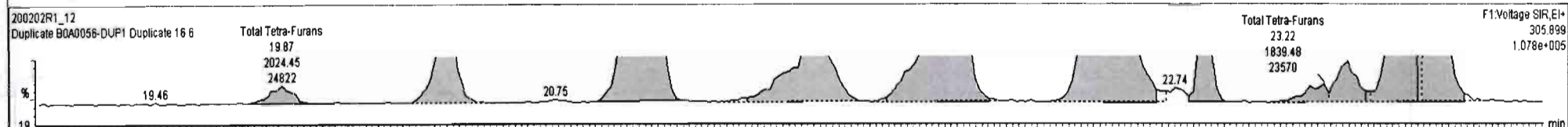
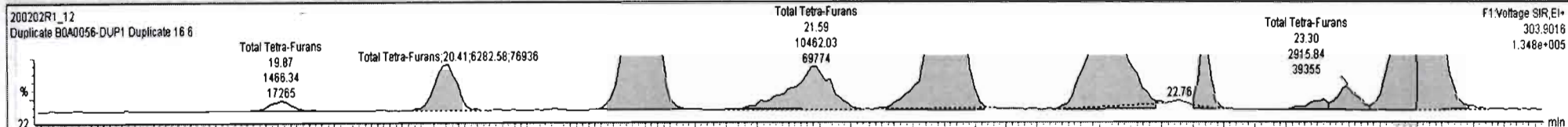




200207R1_12_E040156-DUP1 Duplicate 16.6 Duplicate 16.6

Name	Resp	RA	n/y	RF	wAve	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.031			202		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			343		0.242	343
46 Total Hexa-Furans				0.8982	10.031			480		0.334	482
47 Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.87	1.466e3	2.024e3	0.72	NO	0.52316	0.52316
2 Total Tetra-Furans	20.41	6.283e3	8.729e3	0.72	NO	2.2497	2.2497
3 Total Tetra-Furans	21.03	4.095e4	5.505e4	0.74	NO	14.387	14.387
4 Total Tetra-Furans	21.59	1.046e4	1.438e4	0.73	NO	3.7234	3.7234
5 Total Tetra-Furans	22.01	3.828e4	5.065e4	0.75	NO	13.359	13.359
6 Total Tetra-Furans	22.53	2.290e4	3.097e4	0.74	NO	8.0729	8.0729
7 Total Tetra-Furans	22.83	5.350e3	7.935e3	0.67	NO	1.9910	1.9910
8 Total Tetra-Furans	23.22	1.142e3	1.839e3	0.62	YES	0.38255	0.00000

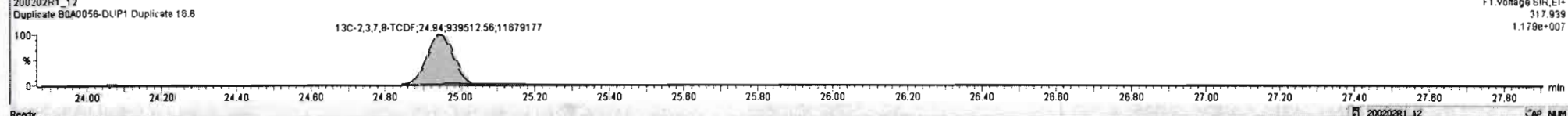
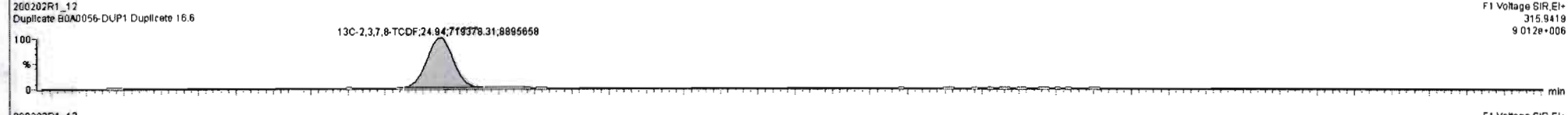
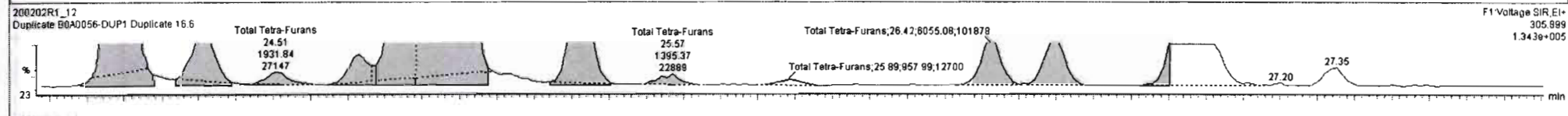
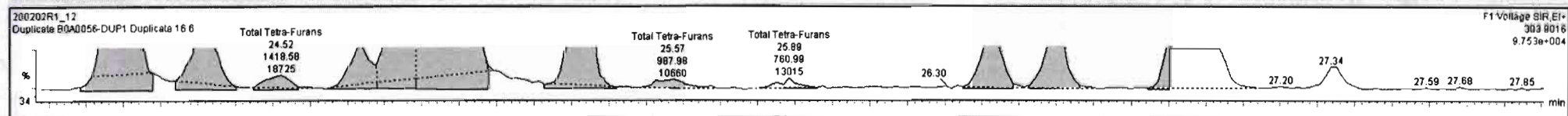


Ready

200207R1_12 CAP NUM

Name	Resp	RA	n/y	RRF	wAol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.031			202		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			343		0.242	343
46 Total Hexa-Furans				0.8982	10.031			480		0.334	482
47 Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											

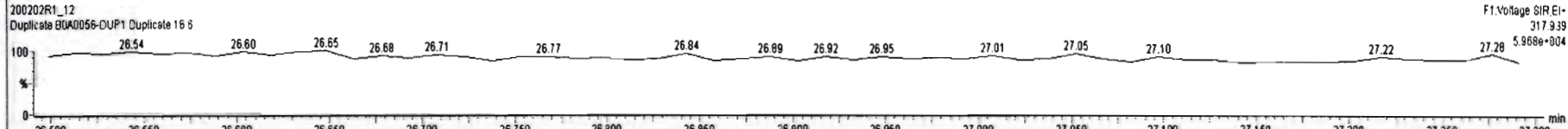
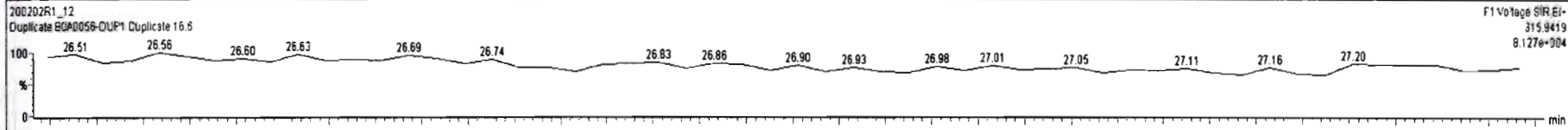
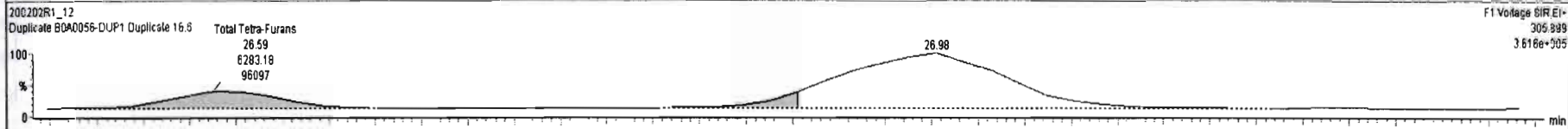
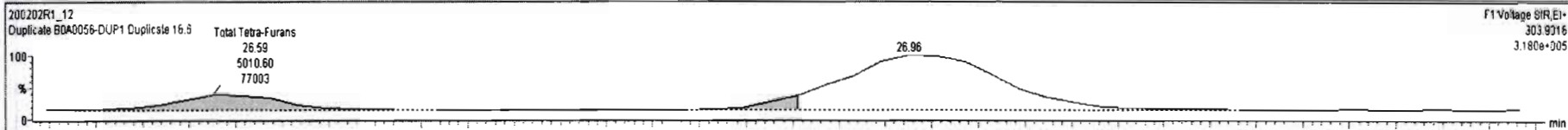
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.87	1.466e3	2.024e3	0.72	NO	0.52316	0.52316
2 Total Tetra-Furans	20.41	6.283e3	8.729e3	0.72	NO	2.2497	2.2497
3 Total Tetra-Furans	21.03	4.095e4	5.505e4	0.74	NO	14.387	14.387
4 Total Tetra-Furans	21.59	1.048e4	1.438e4	0.73	NO	3.7234	3.7234
5 Total Tetra-Furans	22.01	3.828e4	5.085e4	0.75	NO	13.359	13.359
6 Total Tetra-Furans	22.53	2.290e4	3.087e4	0.74	NO	8.0729	8.0729
7 Total Tetra-Furans	22.83	5.350e3	7.935e3	0.67	NO	1.9910	1.9910
8 Total Tetra-Furans	23.22	1.142e3	1.899e3	0.82	VPS	0.38355	0.38355





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.0020	10.031			202	0.155	208	
44 1st Func. Penta-Furans				0.9074	10.031			57.5	0.0494	57.5	
45 Total Penta-Furans				0.9074	10.031			343	0.242	343	
46 Total Hexa-Furans				0.8982	10.031			480	0.334	482	
47 Total Hepta-Furans				0.8511	10.031			1290	0.772	1290	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
17 2,3,7,8-TCDF	24.97	1.932e5	2.599e5	0.75	NO	67.763	67.763
18 Total Tetra-Furans	25.33	1.181e4	1.599e4	0.74	NO	4.1648	4.1648
19 Total Tetra-Furans	25.57	9.880e2	1.395e3	0.71	NO	0.35719	0.35719
20 Total Tetra-Furans	25.89	7.610e2	9.590e2	0.79	NO	0.25762	0.25762
21 Total Tetra-Furans	26.42	4.907e3	6.055e3	0.81	NO	1.6428	1.6428
22 Total Tetra-Furans	26.59	5.011e3	6.283e3	0.80	NO	1.6926	1.6926
23 Total Tetra-Furans	26.90	1.336e3	1.673e3	0.80	NO	0.45105	0.45105



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Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

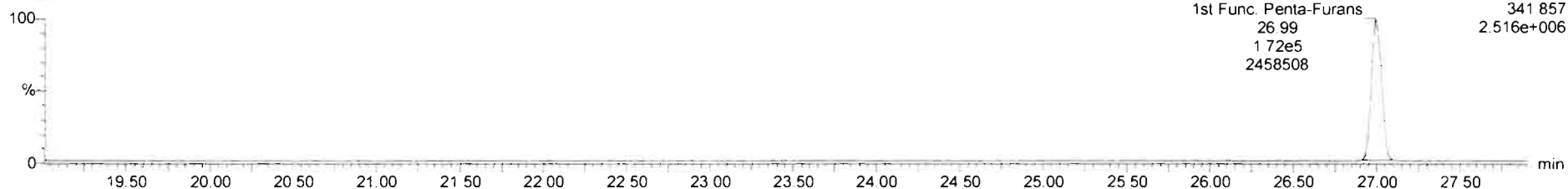
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1st Func. Penta-Furans

200202R1_12

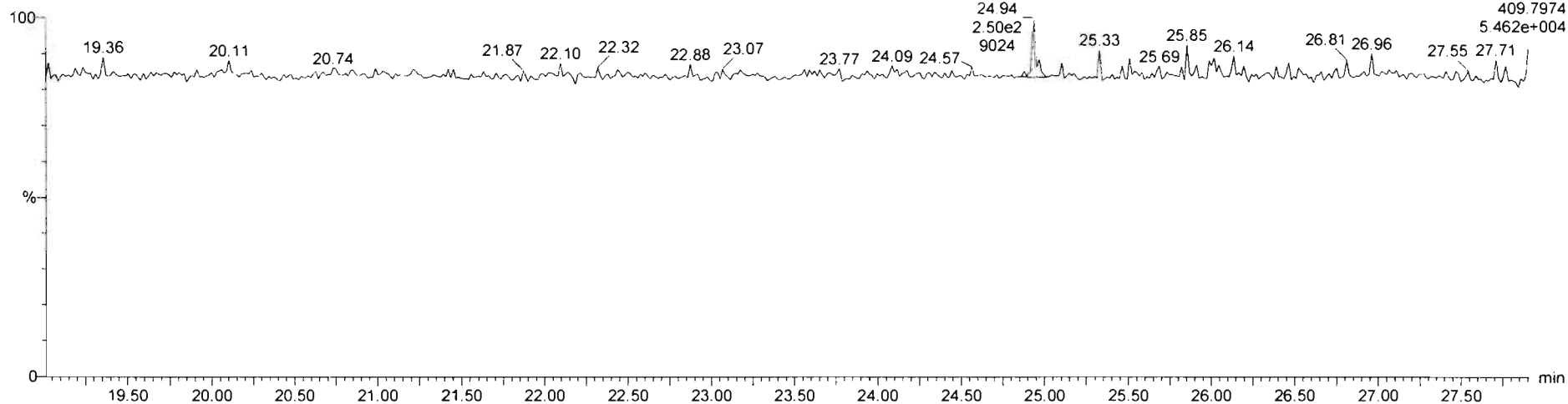


200202R1_12



DPE6

200202R1_12



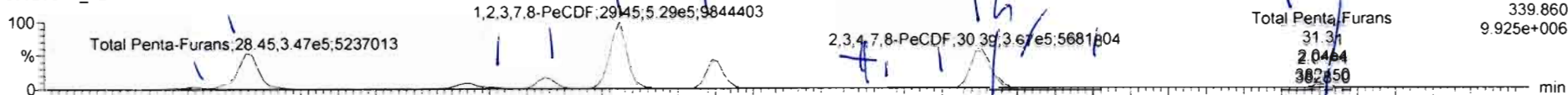
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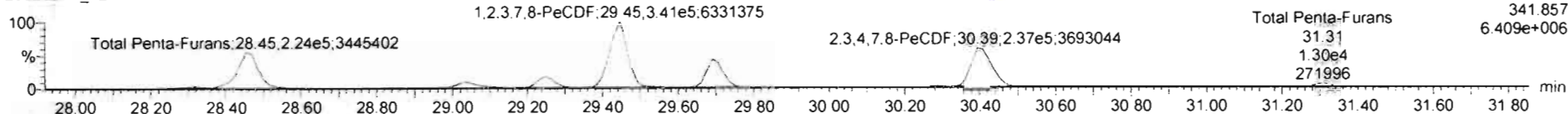
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1,2,3,7,8-PeCDF

200202R1_12

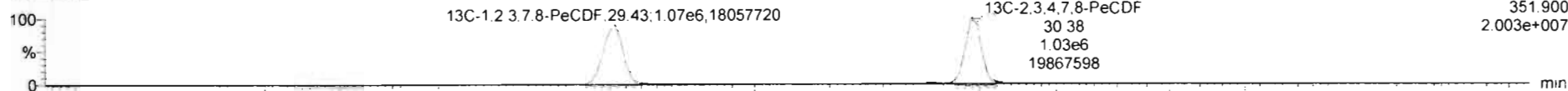


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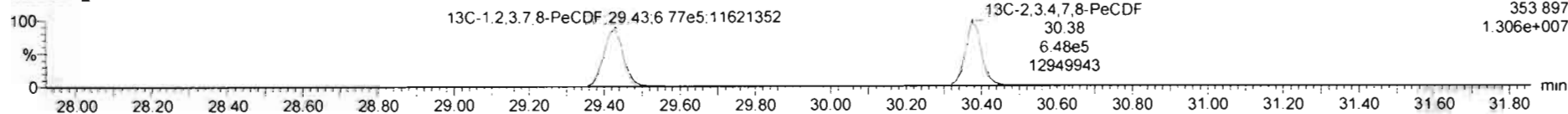


13C-1,2,3,7,8-PeCDF

200202R1_12

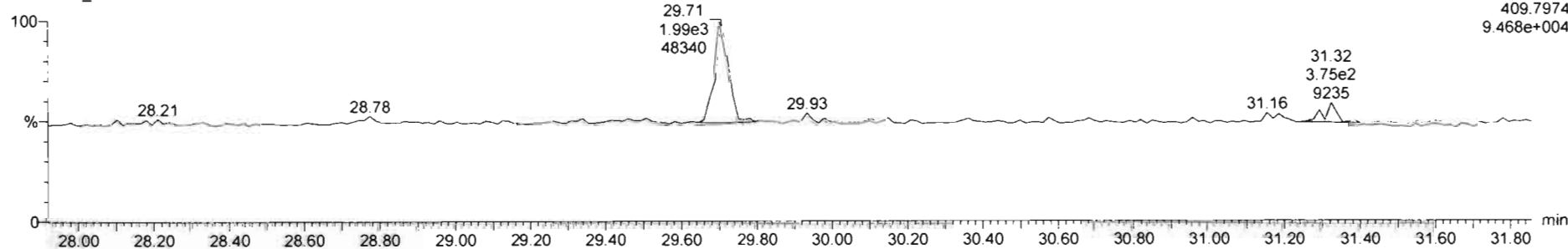


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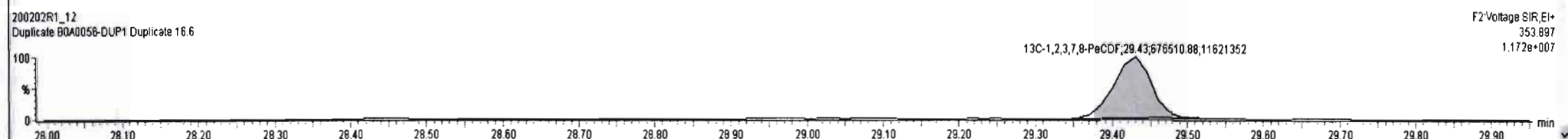
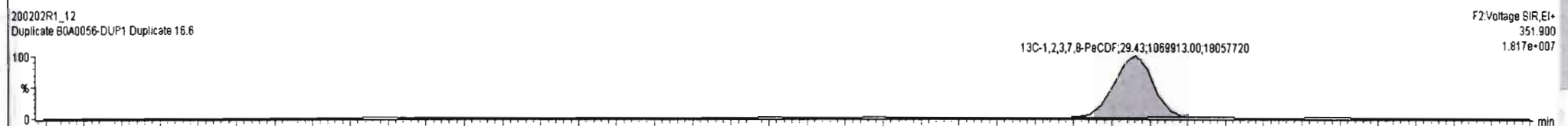
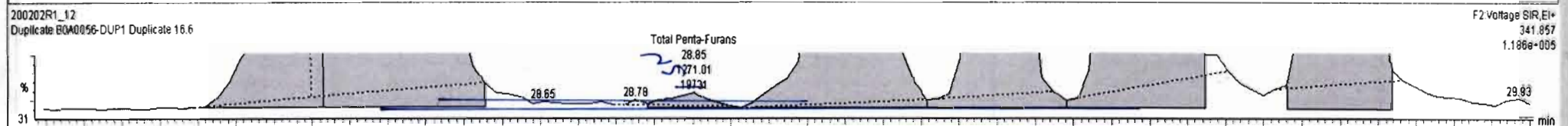
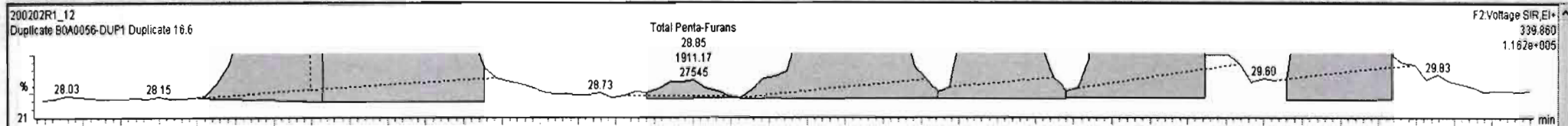
DPE2

200202R1_12



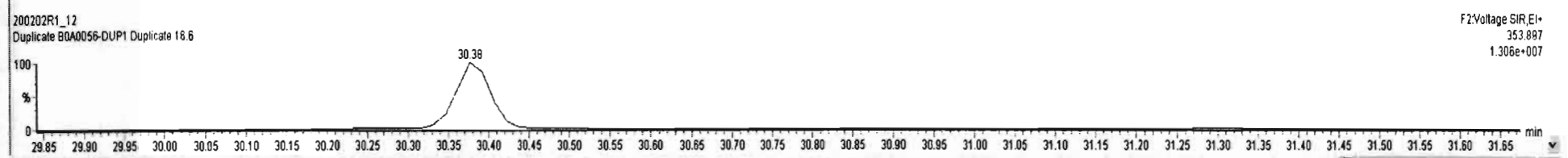
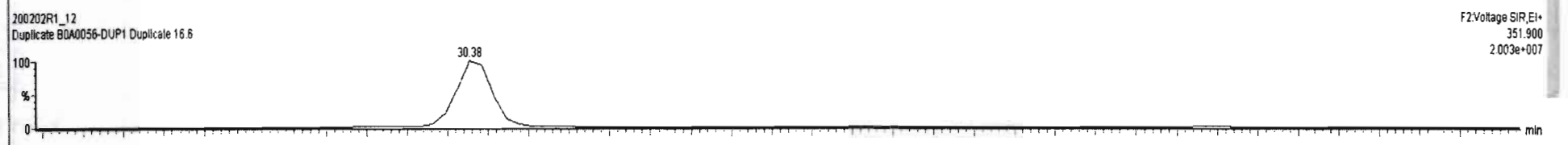
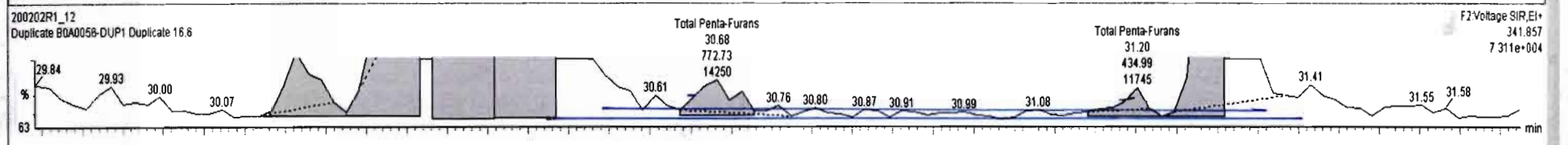
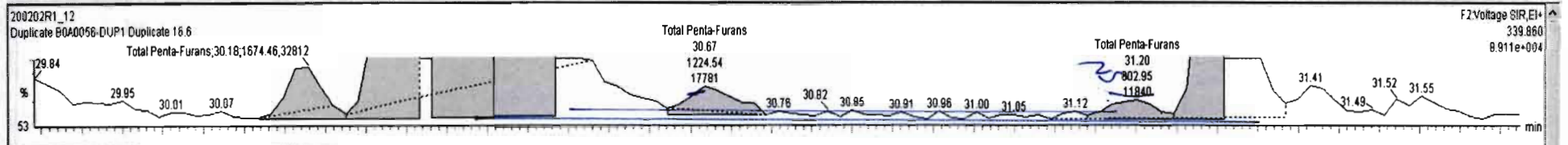
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39 Total Tetra-Dioxins				0.9881	10.031			41.6		0.122	41.8
40 Total Penta-Dioxins				0.9723	10.031			98.1		0.254	98.1
41 Total Hexa-Dioxins				0.9211	10.031			1240		0.790	1240
42 Total Hepta-Dioxins				0.9231	10.031			12400		2.91	12400
43 Total Tetra-Furans				0.8020	10.031			209		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			349		0.242	349
46 Total Hexa-Furans				0.8982	10.031			480		0.334	482
47 Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48 PPK1											

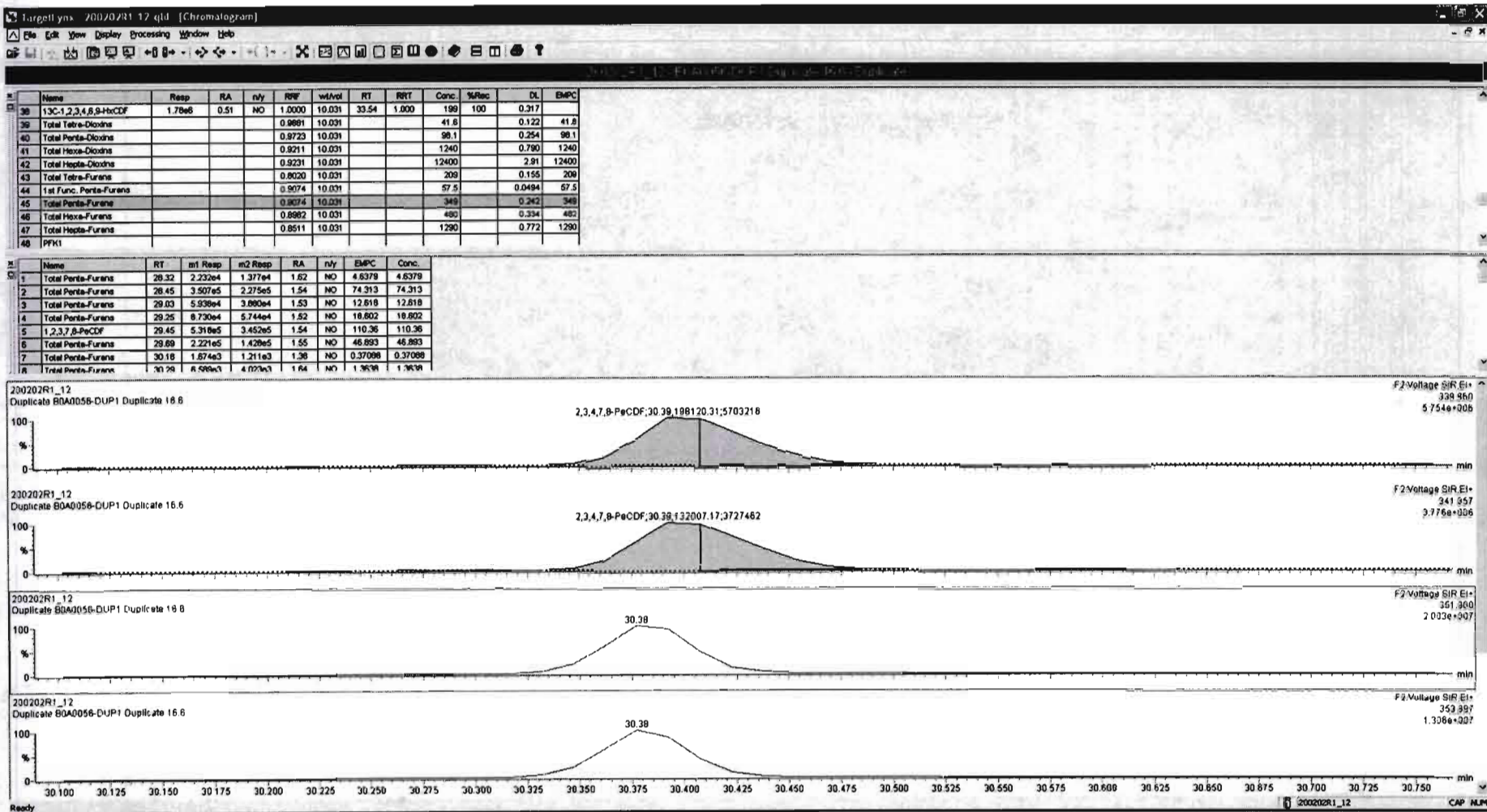
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.32	2.232e4	1.377e4	1.62	NO	4.6379	4.6379
2 Total Penta-Furans	28.45	3.507e5	2.275e5	1.54	NO	74.313	74.313
3 Total Penta-Furans	28.85	1.911e3	1.271e3	1.50	NO	0.40896	0.40896
4 Total Penta-Furans	29.03	5.938e4	3.880e4	1.53	NO	12.618	12.618
5 Total Penta-Furans	29.25	8.730e4	5.744e4	1.52	NO	18.602	18.602
6 1,2,3,7,8-PeCDF	29.45	5.318e5	3.452e5	1.54	NO	110.36	110.36
7 Total Penta-Furans	29.69	2.221e5	1.428e5	1.55	NO	46.893	46.893
8 Total Penta-Furans	30.18	1.674e3	1.211e3	1.38	NO	0.37088	0.37088



Name	Resp	RA	n/y	RF	w/wd	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39 Total Tetra-Dioxins				0.9881	10.031			41.6		0.122	41.8
40 Total Penta-Dioxins				0.9723	10.031			98.1		0.254	98.1
41 Total Hexa-Dioxins				0.9211	10.031			1240		0.790	1240
42 Total Hepta-Dioxins				0.9231	10.031			12400		2.91	12400
43 Total Tetra-Furans				0.8020	10.031			209		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			349		0.242	349
46 Total Hexa-Furans				0.8982	10.031			480		0.334	482
47 Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48 PPK1											

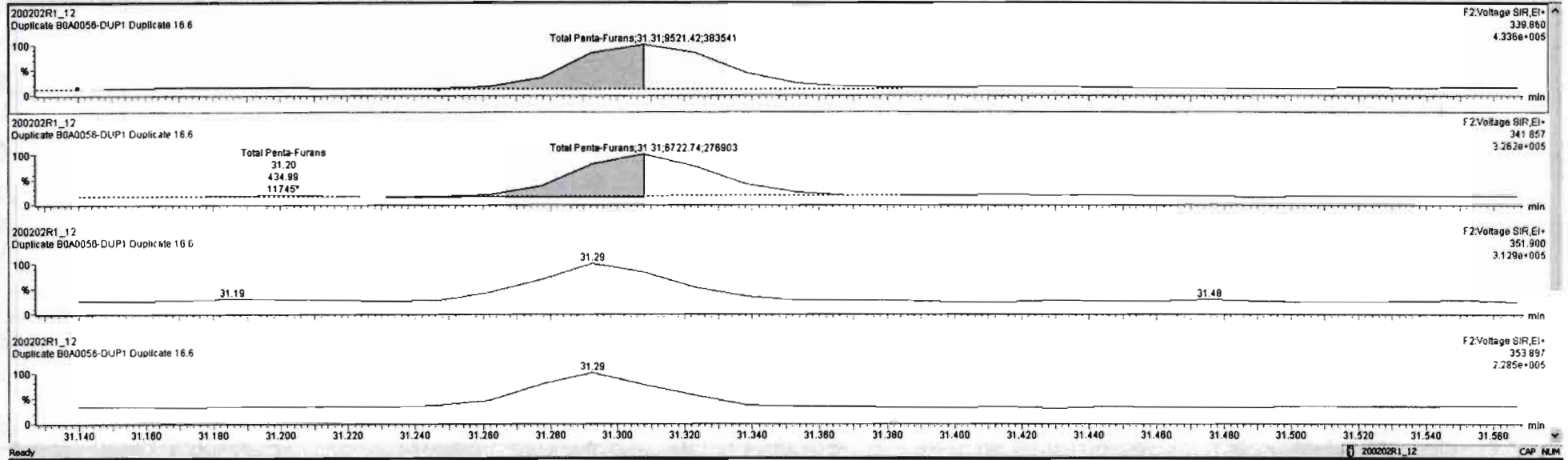
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.32	2.232e4	1.377e4	1.62	NO	4.6379	4.6379
2 Total Penta-Furans	28.45	3.507e5	2.275e5	1.54	NO	74.313	74.313
3 Total Penta-Furans	29.03	5.936e4	3.880e4	1.53	NO	12.618	12.618
4 Total Penta-Furans	29.25	8.730e4	5.744e4	1.52	NO	18.602	18.602
5 1,2,3,7,8-PeCDF	29.45	5.318e5	3.452e5	1.54	NO	110.36	110.36
6 Total Penta-Furans	29.69	2.221e5	1.428e5	1.55	NO	46.893	46.893
7 Total Penta-Furans	30.18	1.674e3	1.211e3	1.38	NO	0.37089	0.37089
8 Total Penta-Furans	30.28	6.598e3	4.073e3	1.64	NO	1.3638	1.3638





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39 Total Tetra-Dioxins				0.9881	10.031			41.6	0.122	41.8	
40 Total Penta-Dioxins				0.9723	10.031			98.1	0.254	98.1	
41 Total Hexa-Dioxins				0.9211	10.031			1240	0.790	1240	
42 Total Hepta-Dioxins				0.8231	10.031			12400	2.91	12400	
43 Total Tetra-Furans				0.8020	10.031			209	0.155	209	
44 1st Func. Penta-Furans				0.8074	10.031			57.5	0.0494	57.5	
45 Total Penta-Furans				0.9074	10.031			343	0.242	343	
46 Total Hexa-Furans				0.8982	10.031			480	0.334	482	
47 Total Hepta-Furans				0.8511	10.031			1280	0.772	1290	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 Total Penta-Furans	30.18	1.674e3	1.211e3	1.38	NO	0.37088	0.37088
8 Total Penta-Furans	30.29	6.589e3	4.023e3	1.64	NO	1.3638	1.3638
9 2,3,4,7,8-PeCDF	30.38	1.861e5	1.320e5	1.50	NO	41.341	41.341
10 Total Penta-Furans	30.41	1.694e5	1.080e5	1.55	NO	35.783	35.783
11 Total Penta-Furans	30.67	1.225e3	7.727e2	1.58	NO	0.25668	0.25668
12 Total Penta-Furans	31.20	8.030e2	4.350e2	1.85	YES	0.14255	0.00000
13 Total Penta-Furans	31.31	9.521e3	6.723e3	1.42	NO	2.0876	2.0876



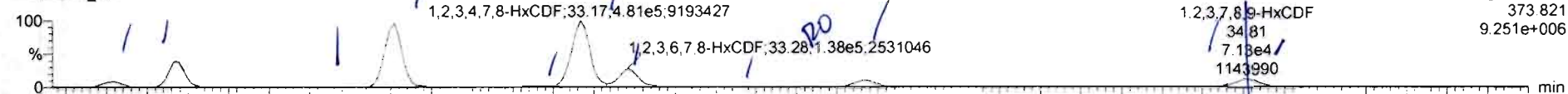
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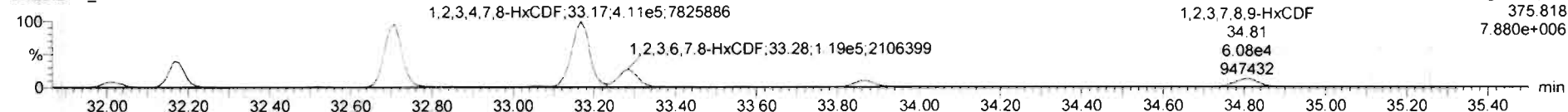
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1,2,3,4,7,8-HxCDF

200202R1_12

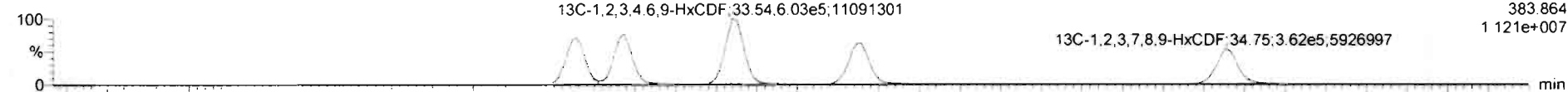


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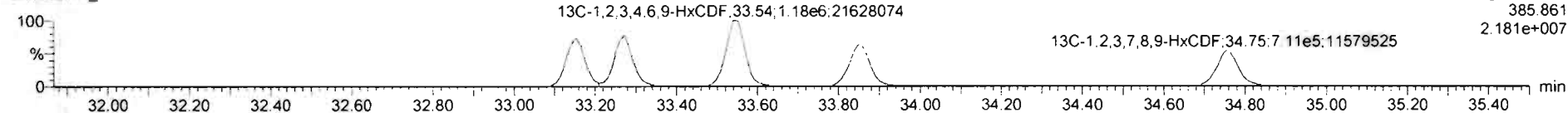


13C-1,2,3,4,7,8-HxCDF

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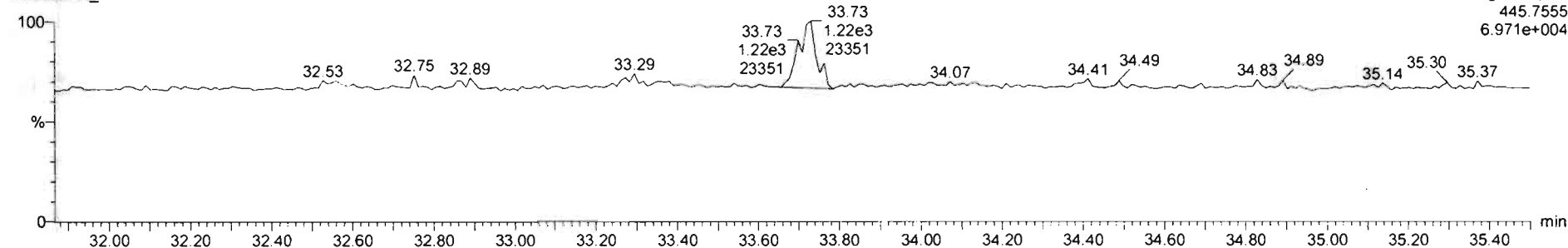


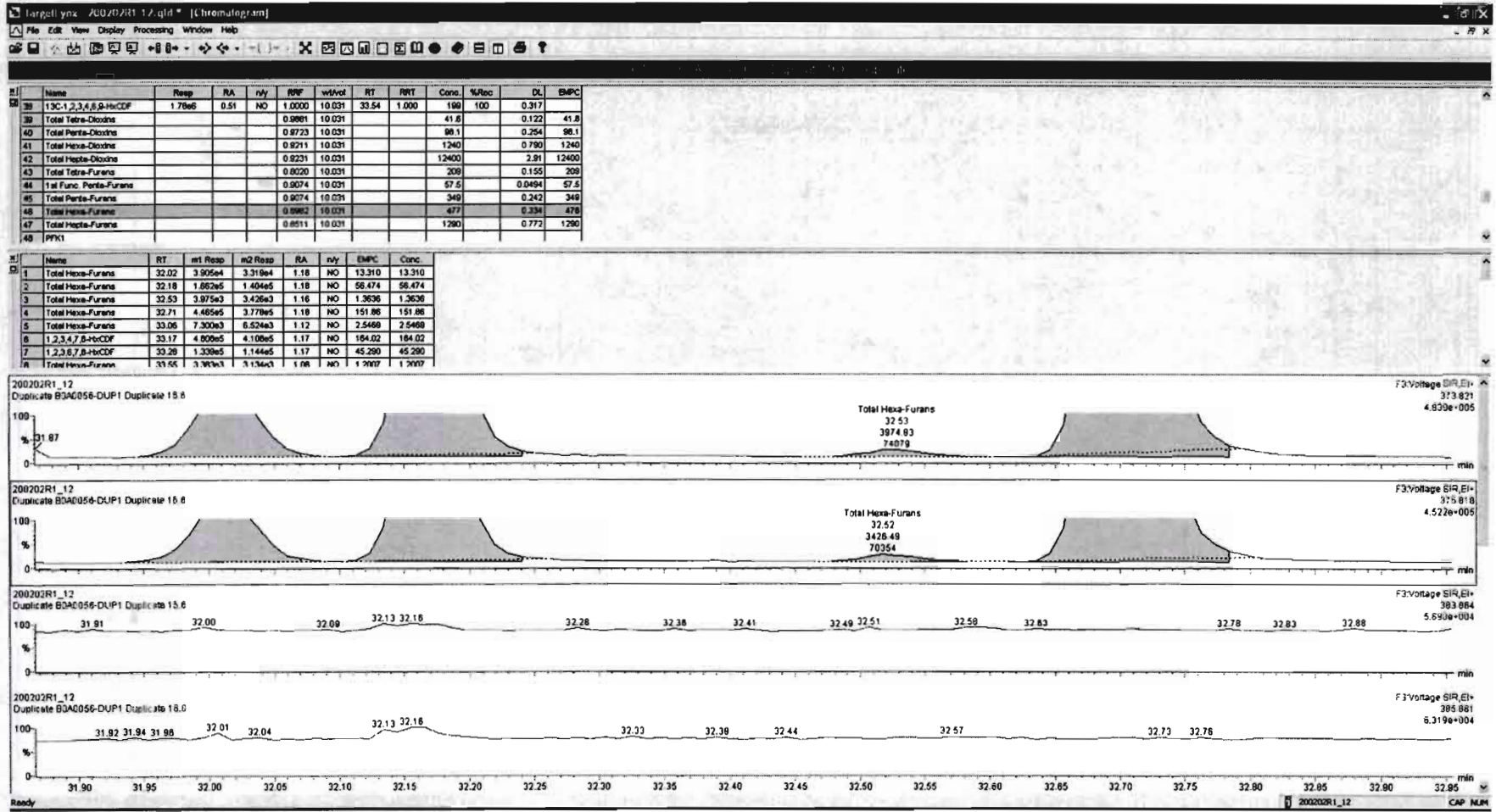
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DPE3

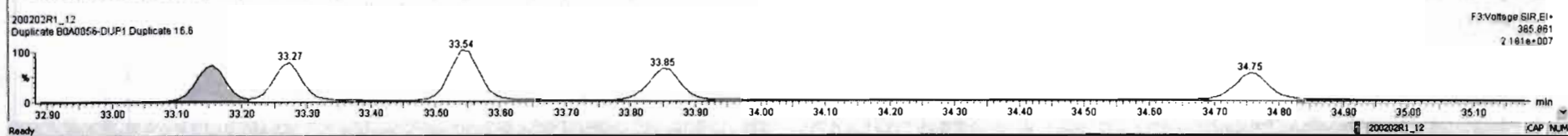
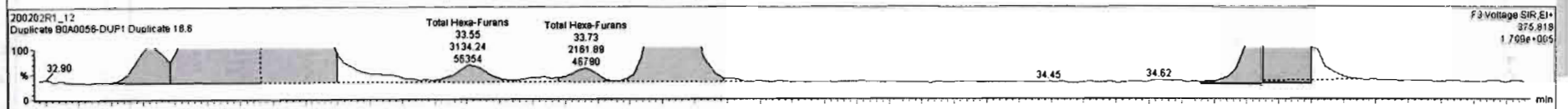
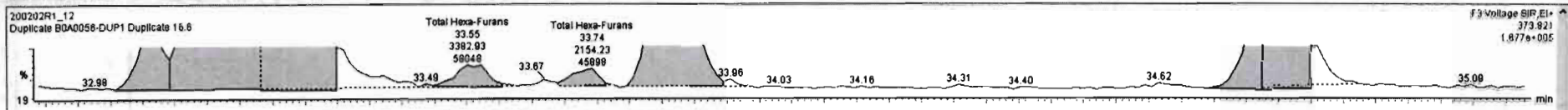
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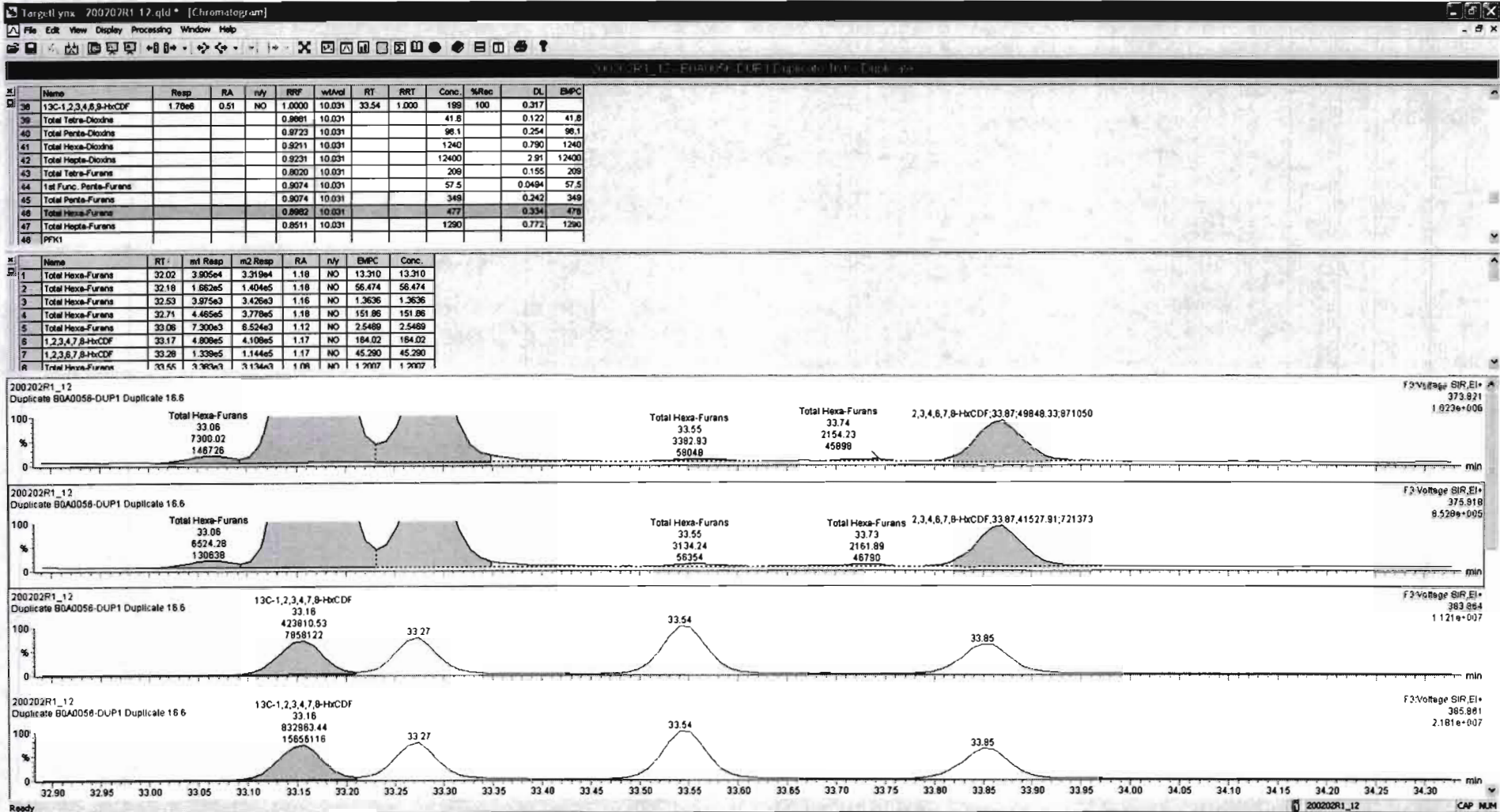




Name	Resp	RA	n/y	RP	width	RT	RRT	Conc.	%Rec	DL	EMPC
38 1,3-C-1,2,3,4,6,8-HxCDF	1.70e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39 Total Tetra-Dioxins				0.9891	10.031			41.6		0.122	41.6
40 Total Penta-Dioxins				0.9723	10.031			98.1		0.254	98.1
41 Total Hexa-Dioxins				0.9211	10.031			1240		0.790	1240
42 Total Hepta-Dioxins				0.9231	10.031			12400		2.91	12400
43 Total Tetra-Furans				0.8020	10.031			209		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			349		0.242	349
46 Total Hexa-Furans				0.8882	10.031			477		0.334	478
47 Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48 PPK1											

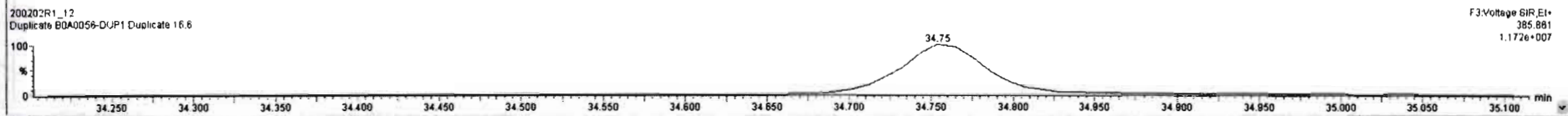
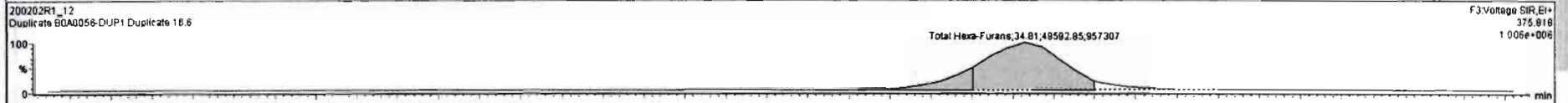
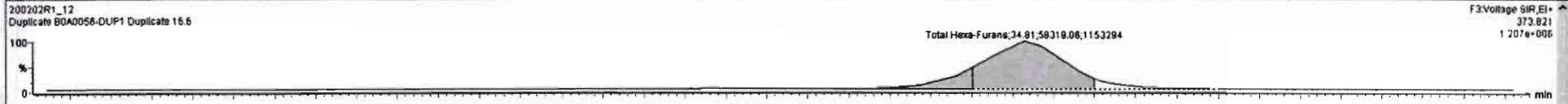
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.02	3.805e4	3.318e4	1.18	NO	13.310	13.310
2 Total Hexa-Furans	32.18	1.662e5	1.404e5	1.18	NO	56.474	56.474
3 Total Hexa-Furans	32.53	3.975e3	3.426e3	1.16	NO	1.3636	1.3636
4 Total Hexa-Furans	32.71	4.465e5	3.778e5	1.18	NO	151.86	151.86
5 Total Hexa-Furans	33.06	7.300e3	6.524e3	1.12	NO	2.5469	2.5469
6 1,2,3,4,7,8-HxCDF	33.17	4.809e5	4.109e5	1.17	NO	164.02	164.02
7 1,2,3,6,7,8-HxCDF	33.28	1.339e5	1.144e5	1.17	NO	45.290	45.290
8 Total Hexa-Furans	33.55	3.363e3	3.134e3	1.09	NO	1.2007	1.2007





#	Name	Resp	RA	n/y	RRF	wtAveI	RT	RRT	Conc.	%Rec	DL	EMPC
38	1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39	Total Tetra-Dioxins				0.9881	10.031			41.6		0.122	41.8
40	Total Penta-Dioxins				0.9723	10.031			98.1		0.254	98.1
41	Total Hexa-Dioxins				0.8211	10.031			1240		0.790	1240
42	Total Hepta-Dioxins				0.8231	10.031			12400		2.91	12400
43	Total Tetra-Furans				0.8020	10.031			209		0.155	209
44	1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45	Total Penta-Furans				0.9074	10.031			349		0.242	349
46	Total Hexa-Furans				0.8882	10.031			477		0.334	478
47	Total Hepta-Furans				0.8511	10.031			1290		0.772	1290
48	PFX1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.02	3.905e4	3.319e4	1.18	NO	13.310	13.310
2	Total Hexa-Furans	32.18	1.662e5	1.404e5	1.18	NO	56.474	56.474
3	Total Hexa-Furans	32.53	3.975e3	3.426e3	1.16	NO	1.3636	1.3636
4	Total Hexa-Furans	32.71	4.465e5	3.779e5	1.18	NO	151.86	151.86
5	Total Hexa-Furans	33.06	7.300e3	6.524e3	1.12	NO	2.5469	2.5469
6	1,2,3,4,7,8-HxCDF	33.17	4.808e5	4.108e5	1.17	NO	184.02	184.02
7	1,2,3,6,7,8-HxCDF	33.28	1.339e5	1.144e5	1.17	NO	45.290	45.290
8	Total Hexa-Furans	33.65	3.363e4	3.134e4	1.08	NO	1.2007	1.2007



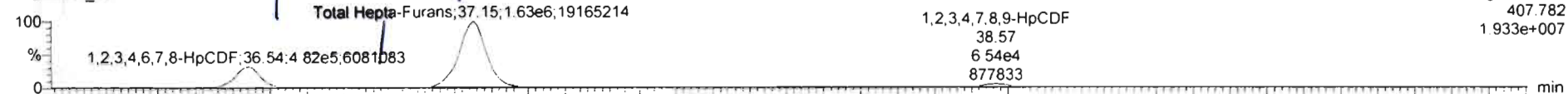
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

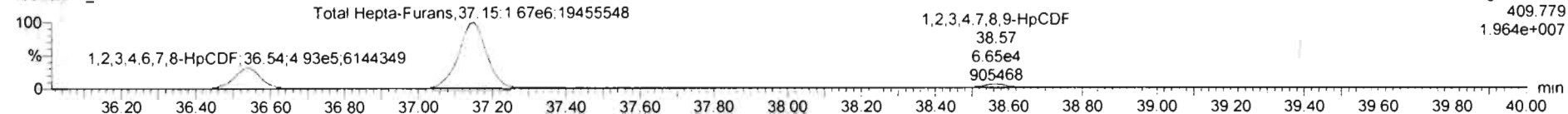
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1,2,3,4,6,7,8-HpCDF

200202R1_12

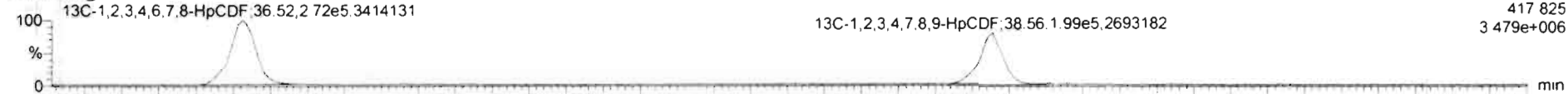


200202R1_12

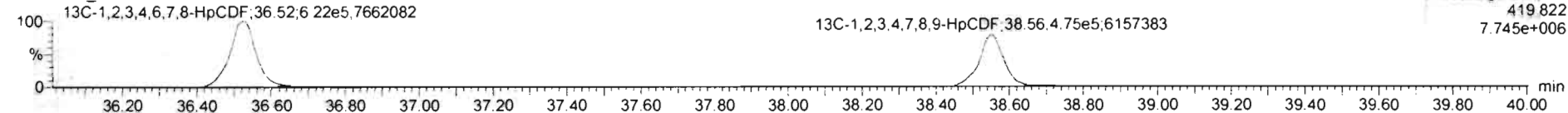


13C-1,2,3,4,6,7,8-HpCDF

200202R1_12

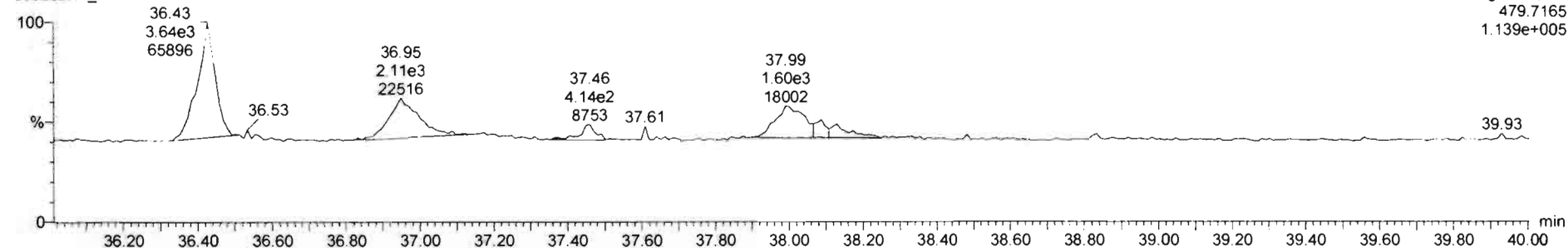


200202R1_12



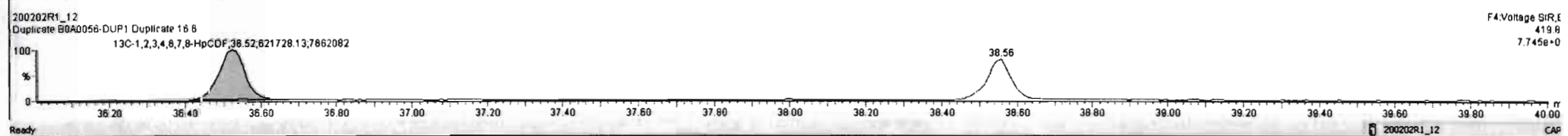
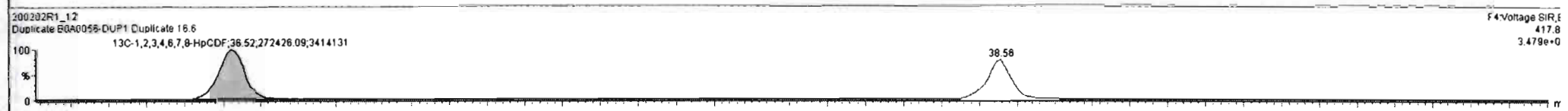
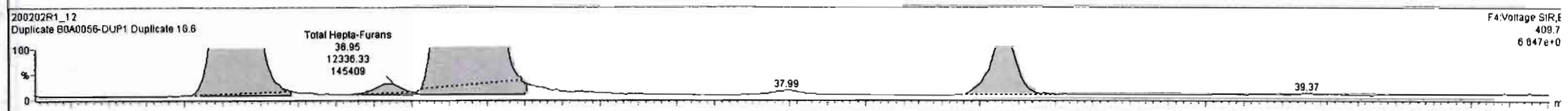
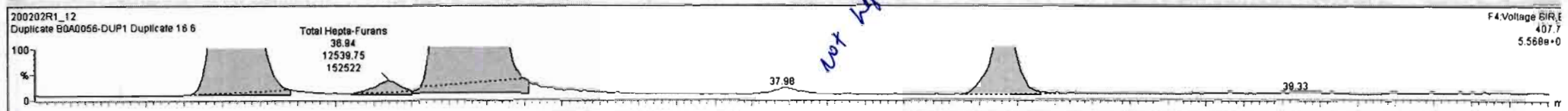
DPE4

200202R1_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	1.78e6	0.51	NO	1.0000	10.031	33.54	1.000	199	100	0.317	
39 Total Tetra-Dioxins				0.9681	10.031			41.6		0.122	41.6
40 Total Penta-Dioxins				0.9723	10.031			96.1		0.254	96.1
41 Total Hexa-Dioxins				0.9211	10.031			1240		0.790	1240
42 Total Hepta-Dioxins				0.9231	10.031			12400		2.91	12400
43 Total Tetra-Furans				0.8020	10.031			209		0.155	209
44 1st Func. Penta-Furans				0.9074	10.031			57.5		0.0494	57.5
45 Total Penta-Furans				0.9074	10.031			349		0.242	349
46 Total Hexa-Furans				0.8982	10.031			477		0.334	478
47 Total Hepta-Furans				0.8511	10.031			1320		0.772	1320
48 PPK1											

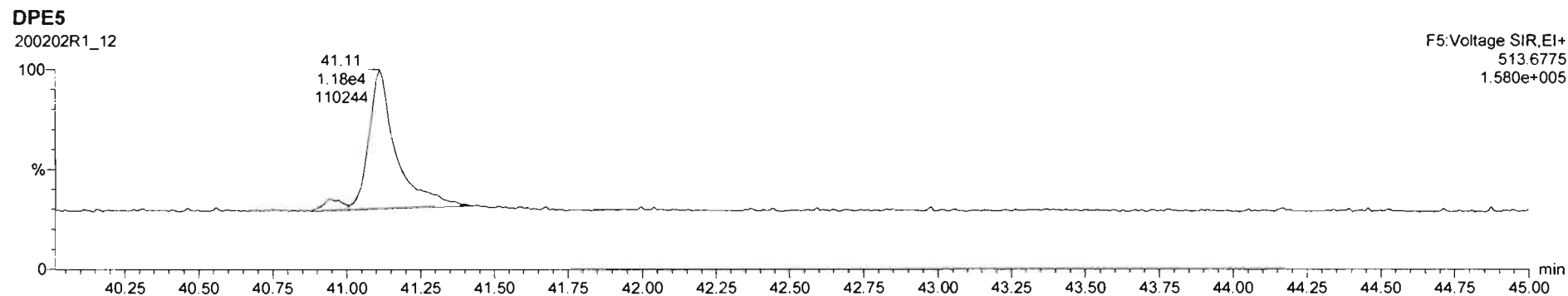
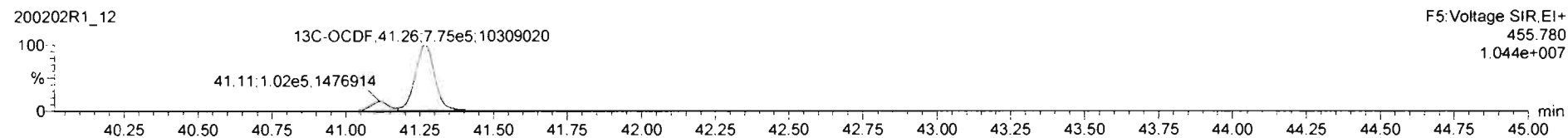
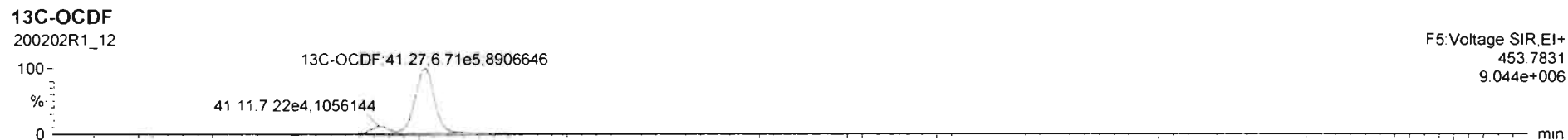
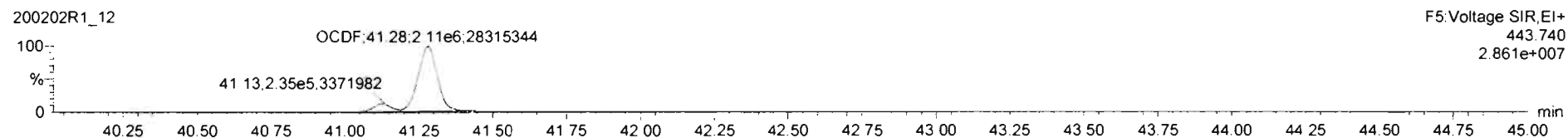
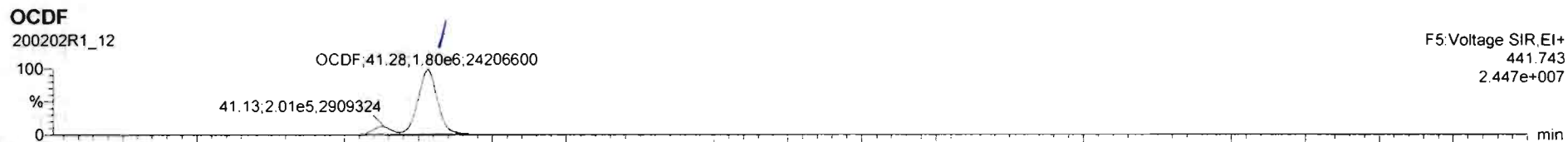
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.54	4.889e5	4.995e5	0.98	NO	258.98	258.98
2 Total Hepta-Furans	36.94	1.254e4	1.234e4	1.02	NO	7.4294	7.4294
3 Total Hepta-Dioxins	37.15	1.667e6	1.711e6	0.97	NO	1008.8	1008.8
4 1,2,3,4,7,8,9-HpCDF	38.57	6.580e4	6.626e4	0.99	NO	39.828	39.828



Dataset: Untitled

Last Altered: Monday, February 03, 2020 09:34:05 Pacific Standard Time
Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

Name: 200202R1_12, Date: 02-Feb-2020, Time: 19:00:52, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

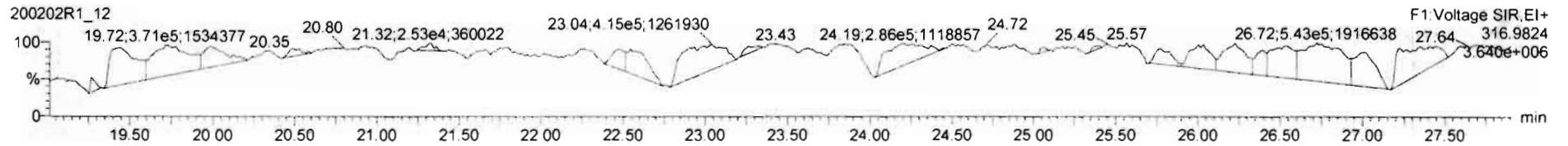


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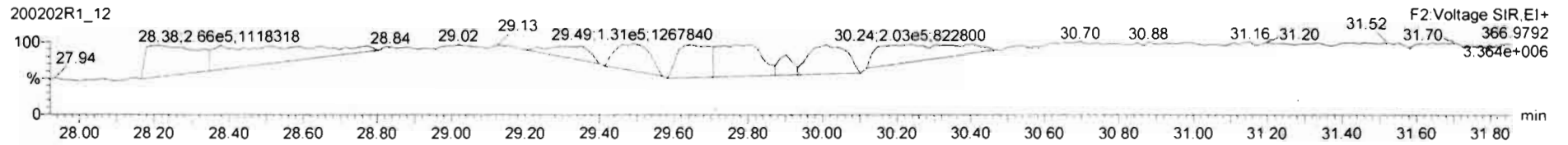
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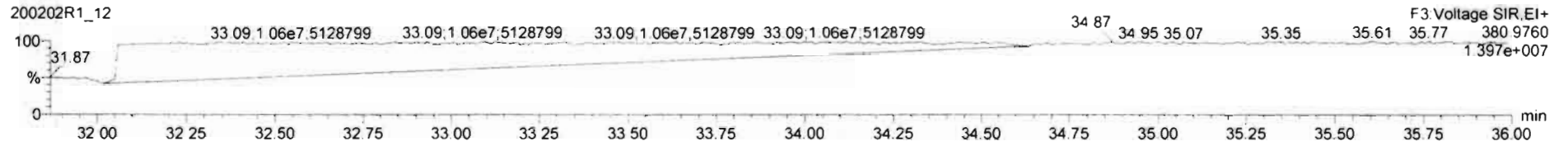
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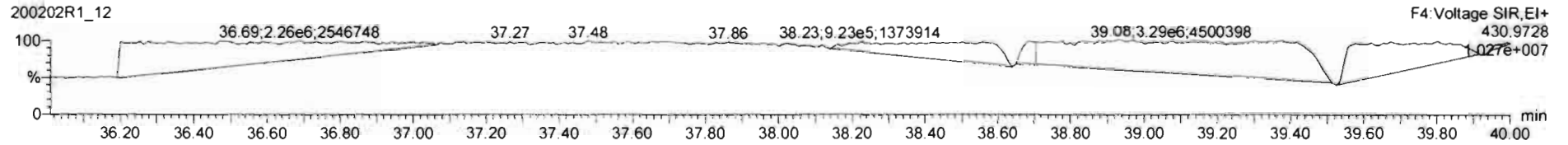
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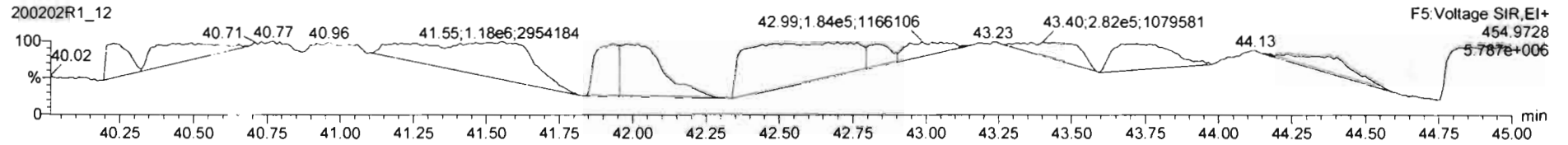
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200203R1\200203R1-12.qld

Last Altered: Tuesday, February 04, 2020 08:28:55 Pacific Standard Time

Printed: Friday, February 07, 2020 12:02:46 Pacific Standard Time

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C103/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.14e6	1.00	NO	0.923	10.031	37.939	37.94	1.000	1.000	5215.2		15.5	5220
2	7 OCDD	4.80e6	0.88	NO	0.975	10.031	40.921	40.93	1.000	1.000	35038		11.2	35000
3	23 13C-1,2,3,4,6,7,8-HpCDD	4.74e4	1.04	NO	0.747	10.031	37.955	37.93	1.132	1.131	96.946	48.6	1.40	
4	24 13C-OCDD	5.61e4	0.91	NO	0.707	10.031	40.839	40.92	1.218	1.220	121.38	30.4	1.22	
5	38 13C-1,2,3,4,6,9-HxCDF	1.30e5	0.52	NO	1.00	10.031	33.520	33.53	1.000	1.000	199.38	100	1.22	

Dataset: Untitled

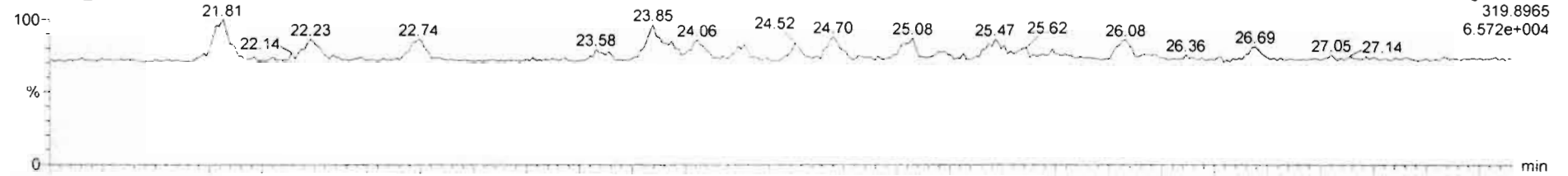
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

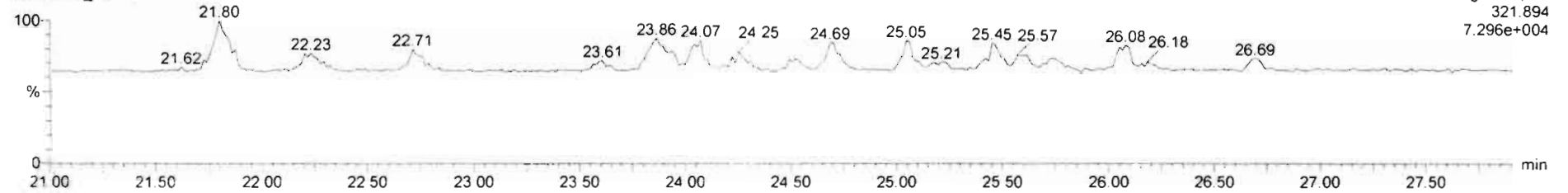
Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate

2,3,7,8-TCDD

200203R1_12

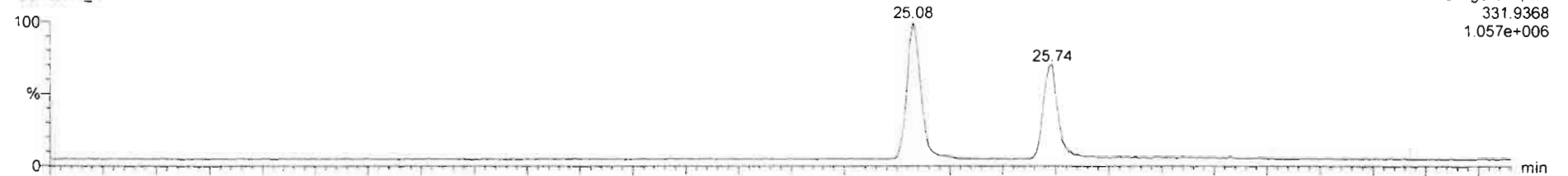


200203R1_12

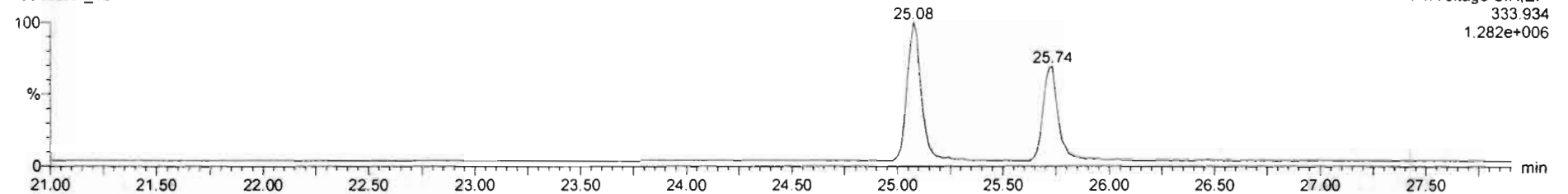


13C-2,3,7,8-TCDD

200203R1_12



200203R1_12



Dataset: Untitled

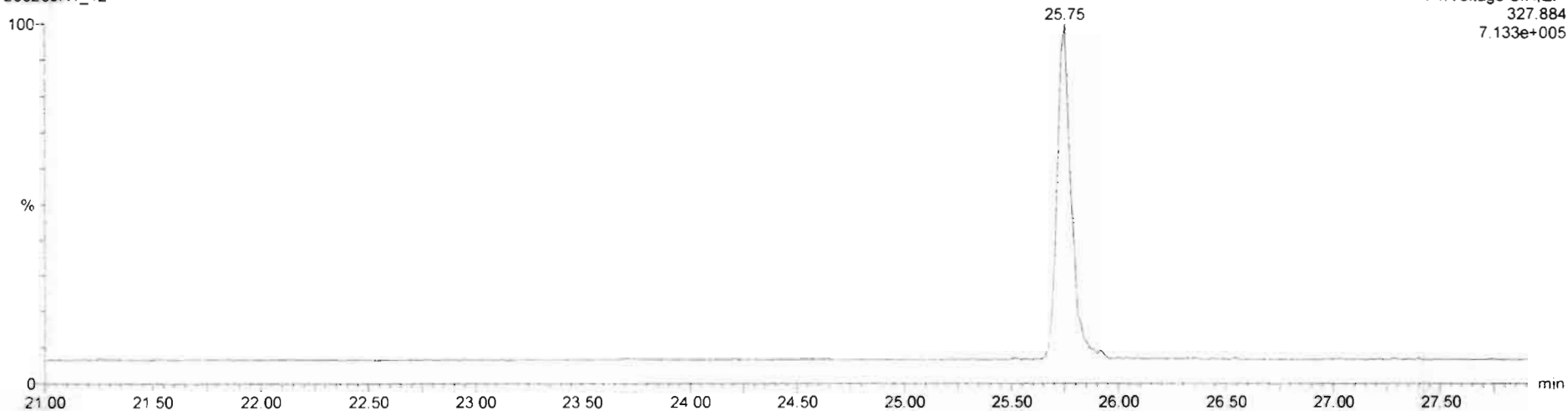
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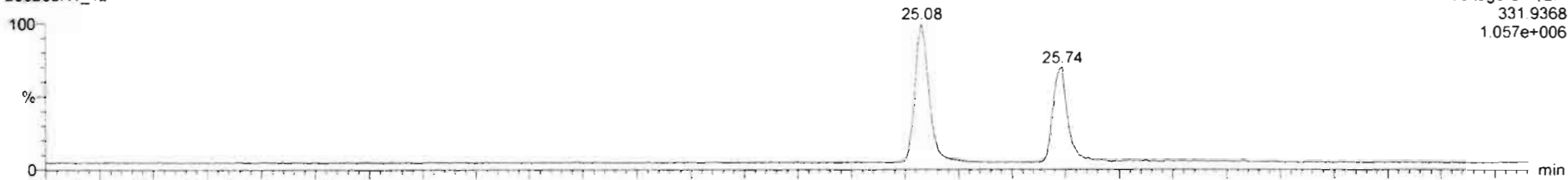
37Cl-2,3,7,8-TCDD

200203R1_12

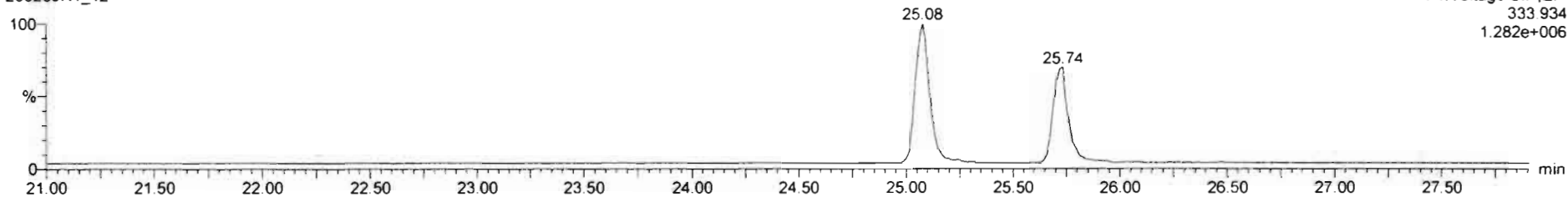


13C-1,2,3,4-TCDD

200203R1_12



200203R1_12



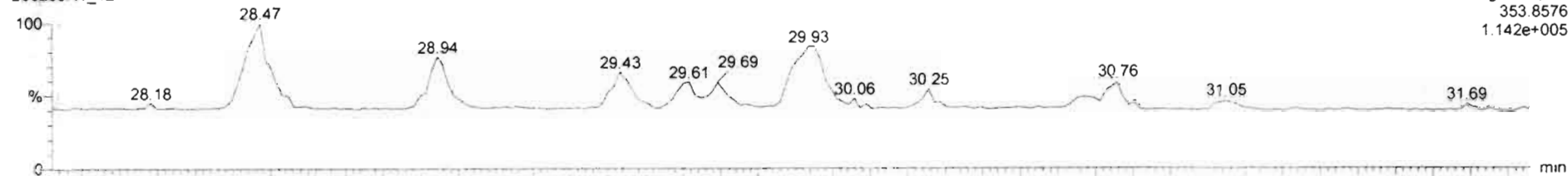
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

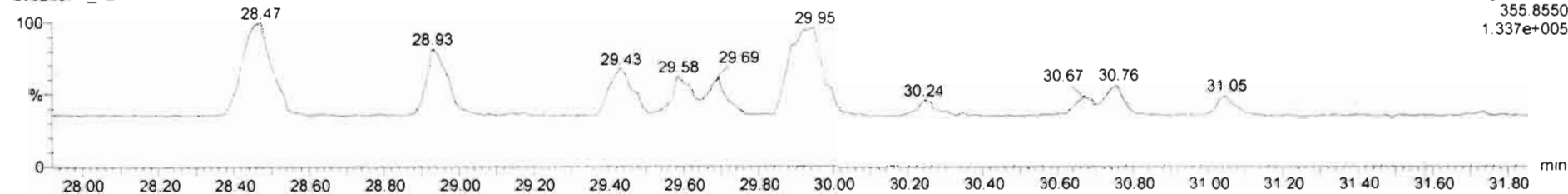
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1,2,3,7,8-PeCDD

200203R1_12

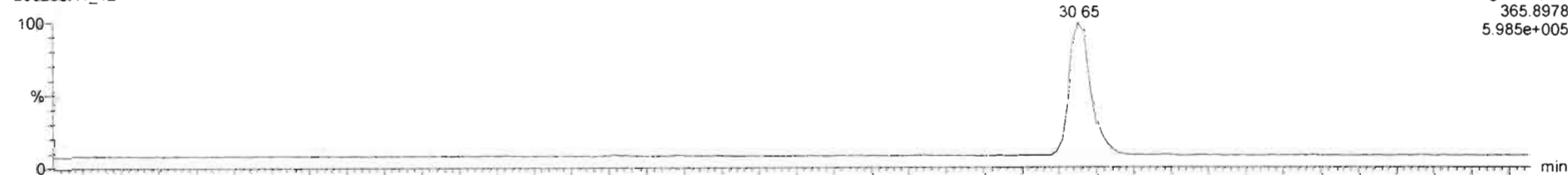


200203R1_12

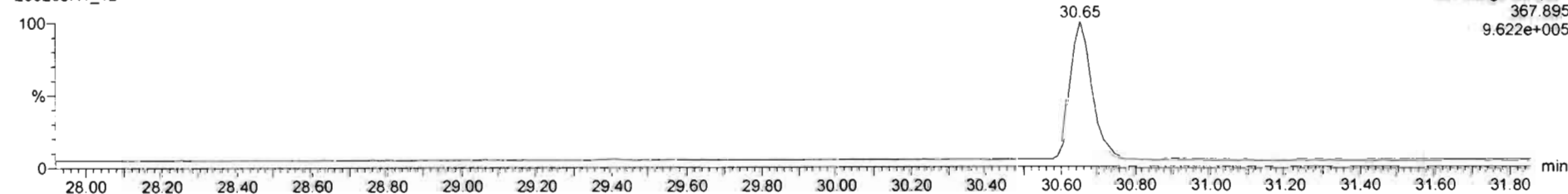


13C-1,2,3,7,8-PeCDD

200203R1_12



200203R1_12



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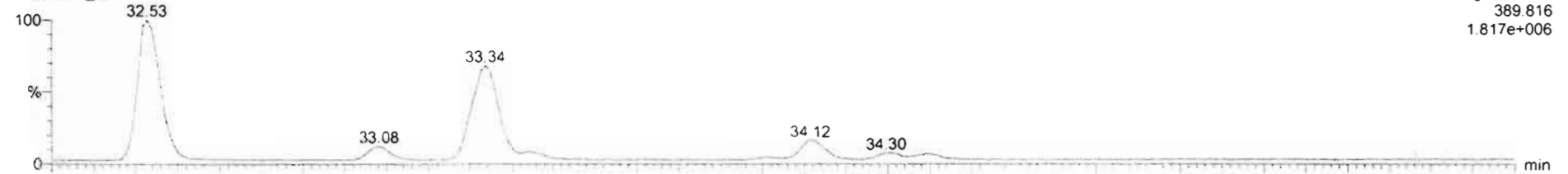
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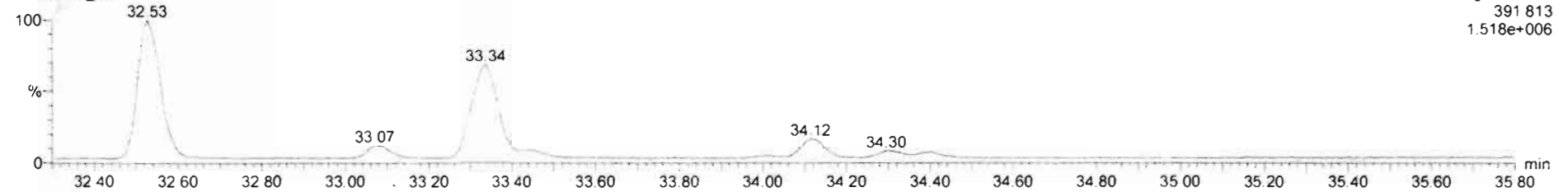
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1,2,3,4,7,8-HxCDD

200203R1_12

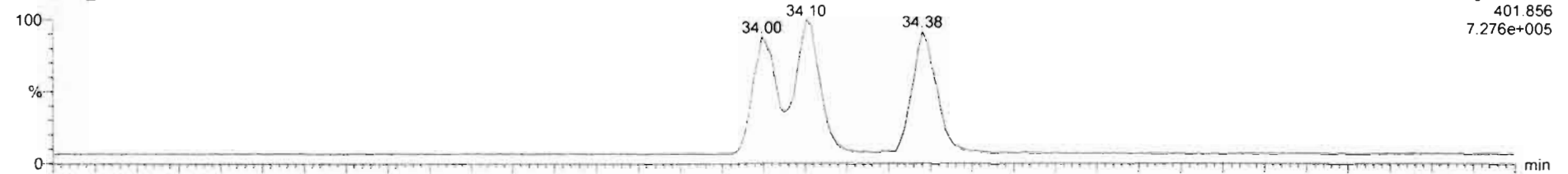


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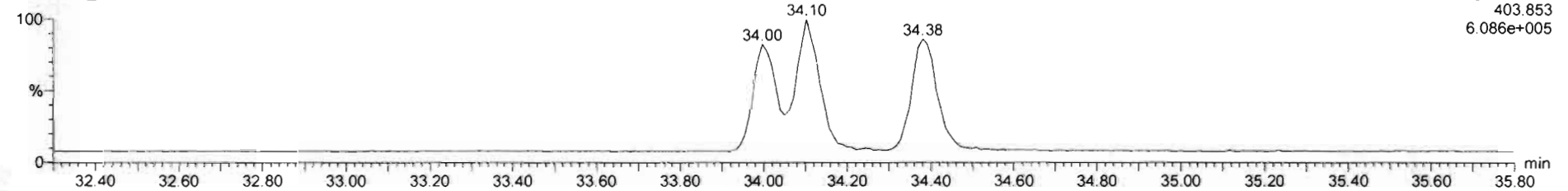


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200203R1_12



200203R1_12



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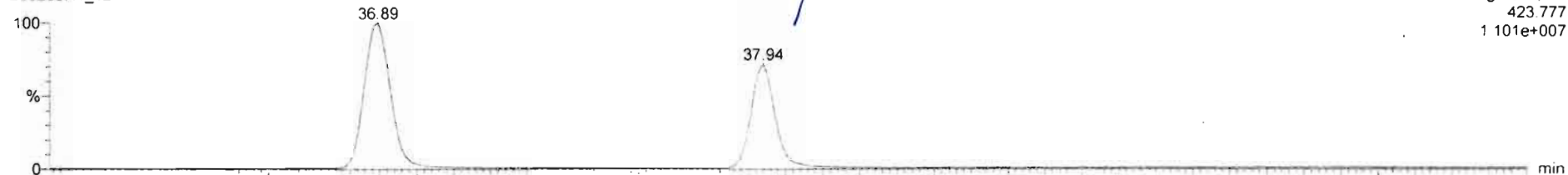
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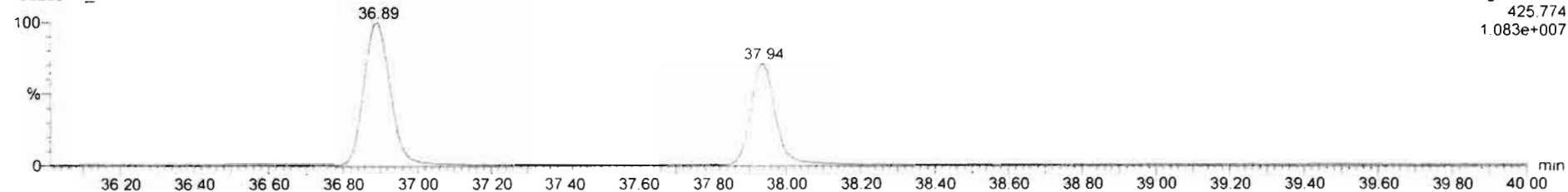
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1,2,3,4,6,7,8-HpCDD

200203R1_12

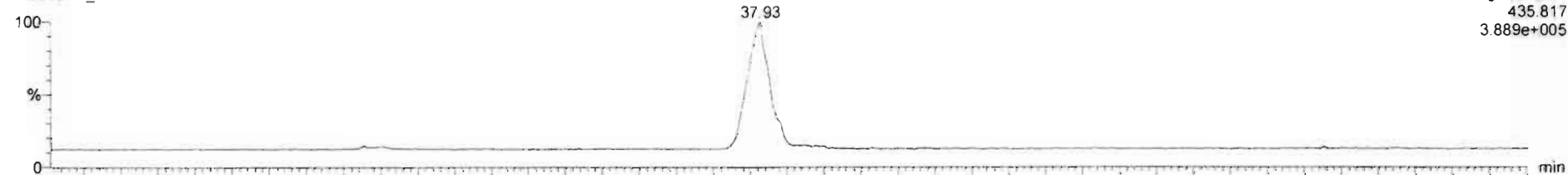


200203R1_12

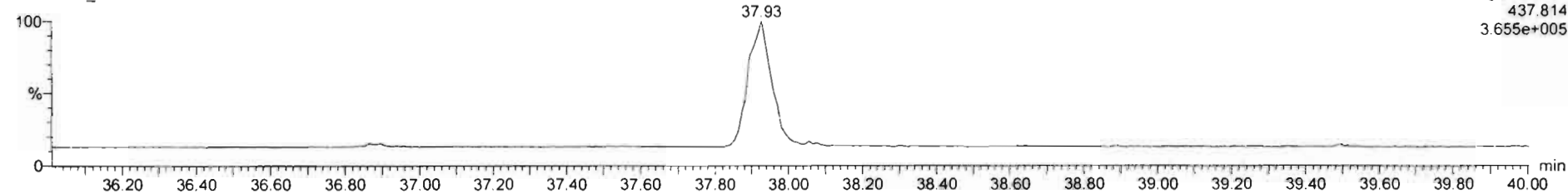


13C-1,2,3,4,6,7,8-HpCDD

200203R1_12

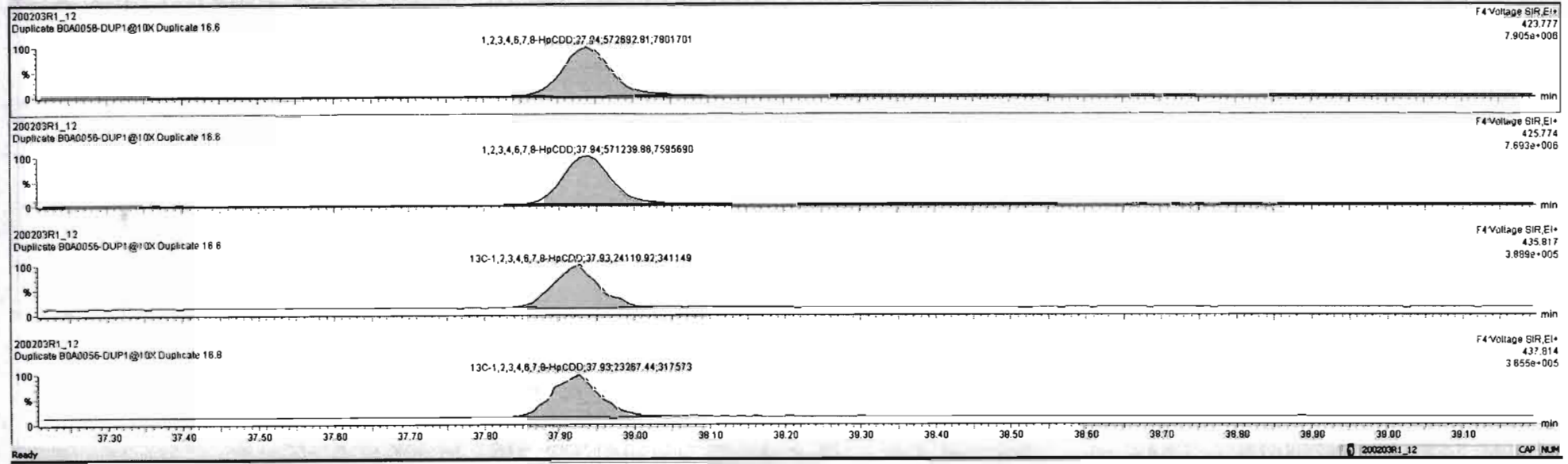


200203R1_12



#	Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.14e2	0.59	YES	0.9881	10.031	25.74	1.000	1.49		1.42	1.28
2	1,2,3,7,8-PeCDD	1.53e3	0.81	NO	0.8723	10.031	30.87	1.000	3.22		1.18	3.22
3	1,2,3,4,7,8-HxCDD	3.45e3	1.25	NO	1.0708	10.031	34.01	1.000	9.88		3.34	9.88
4	1,2,3,6,7,8-HxCDD	3.09e4	1.23	NO	0.9211	10.031	34.12	1.000	81.7		3.35	81.7
5	1,2,3,7,8-HxCDD	9.02e3	1.38	NO	0.9182	10.031	34.39	1.000	26.9		3.55	26.9
6	1,2,3,4,6,7,8-HpCDD	1.14e6	1.00	NO	0.9231	10.031	37.94	1.000	5220		15.5	5220
7	OCDD	4.80e6	0.88	NO	0.9746	10.031	40.83	1.000	35000		11.2	35000
8	2,3,7,8-TCDF	3.95e4	0.77	NO	0.8020	10.031	24.87	1.001	70.4		1.34	70.4
9	1,2,3,7,8-PeCDF	7.53e4	1.54	NO	0.9074	10.031	28.40	1.000	107		1.55	107
10	2,3,4,7,8-PeCDF	4.95e4	1.46	NO	0.9516	10.031	30.36	1.000	75.5		1.58	75.5
11	1,2,3,4,7,8-HxCDF	6.15e4	1.14	NO	0.8623	10.031	33.15	1.001	158		1.86	158

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1								

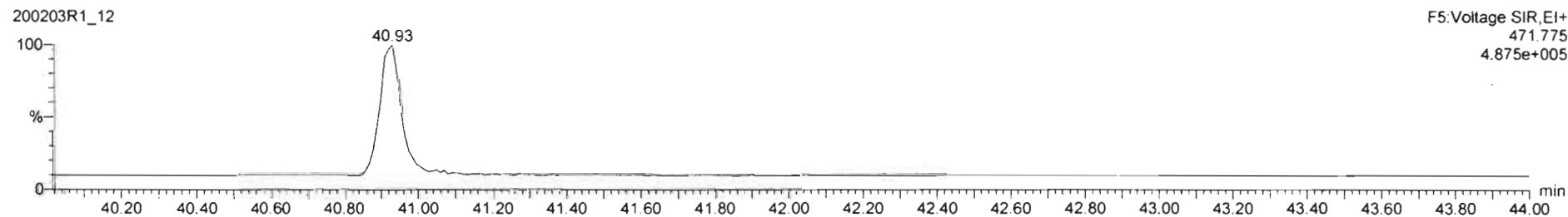
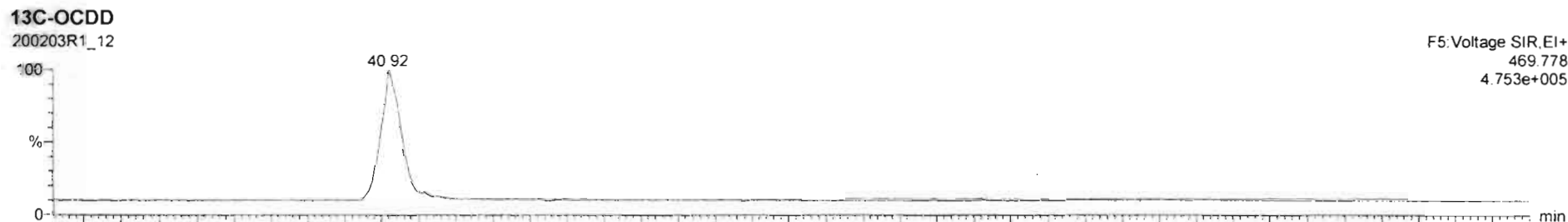
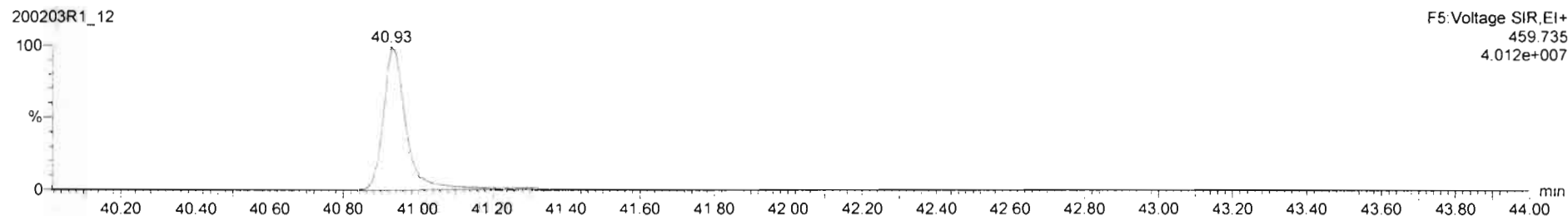


Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

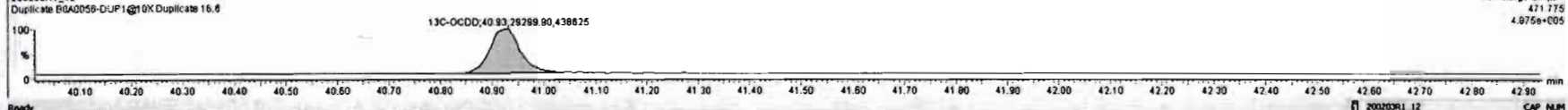
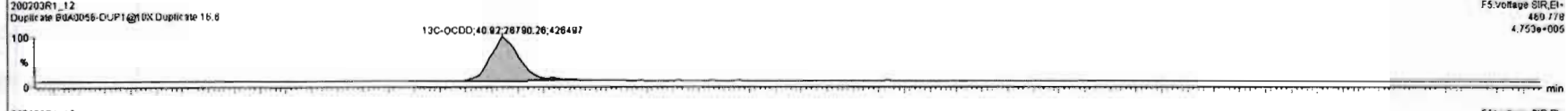
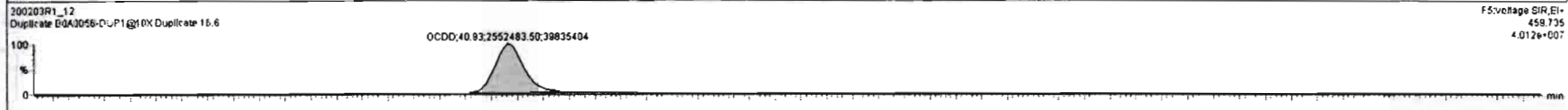
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate



Name	Resp	RA	rvf	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	BMP
2,3,7,8-TCDD	9.14e2	0.59	YES	0.9981	10.031	25.74	1.000	1.49		1.42	1.28
1,2,3,7,8-PeCDD	1.53e3	0.61	NO	0.9723	10.031	30.67	1.000	3.22		1.19	3.22
1,2,3,4,7,8-HxCDD	3.45e3	1.25	NO	1.0708	10.031	34.01	1.000	9.68		3.34	9.68
1,2,3,6,7,8-HxCDD	3.08e4	1.23	NO	0.9211	10.031	34.12	1.000	61.7		3.35	61.7
1,2,3,7,8,9-HxCDD	9.02e3	1.36	NO	0.9182	10.031	34.39	1.000	26.9		3.68	26.9
1,2,3,4,6,7,8-HpCDD	1.14e6	1.00	NO	0.9231	10.031	37.94	1.000	5220		15.5	5220
OCDD	4.80e6	0.86	NO	0.8746	10.031	40.93	1.000	35000		11.2	35000
2,3,7,8-TCDF	3.95e4	0.77	NO	0.8020	10.031	24.67	1.001	70.4		1.34	70.4
1,2,3,7,8-PeCDF	7.53e4	1.54	NO	0.8074	10.031	28.40	1.000	107		1.55	107
2,3,4,7,8-PeCDF	4.95e4	1.46	NO	0.9516	10.031	30.36	1.000	75.5		1.58	75.5
1,2,3,4,7,8-HxCDF	6.15e4	1.14	NO	0.8623	10.031	32.16	1.001	158		1.86	158

Name	RT	m1 Resp	m2 Resp	RA	rvf	BMP	Conc.
1							



Dataset: Untitled

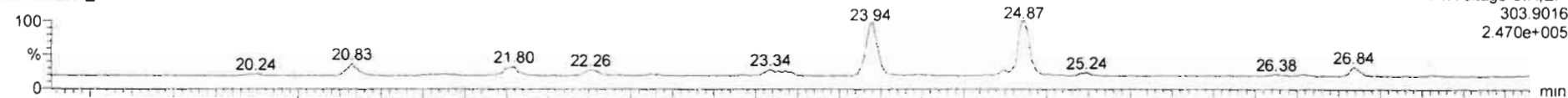
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

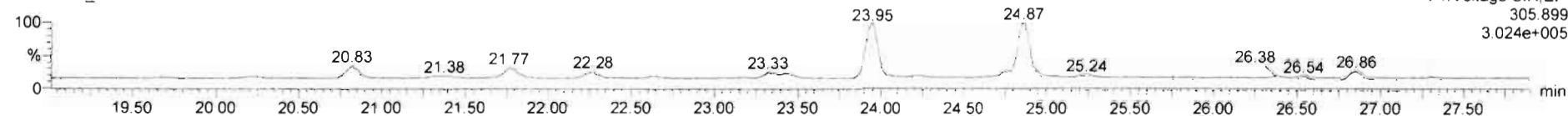
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2,3,7,8-TCDF

200203R1_12

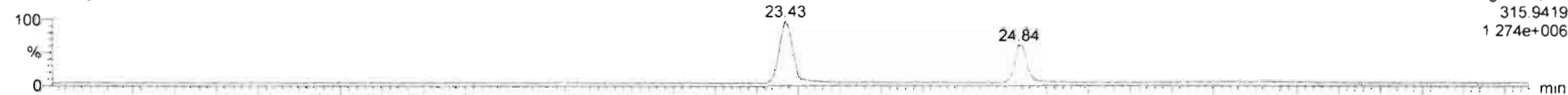


200203R1_12

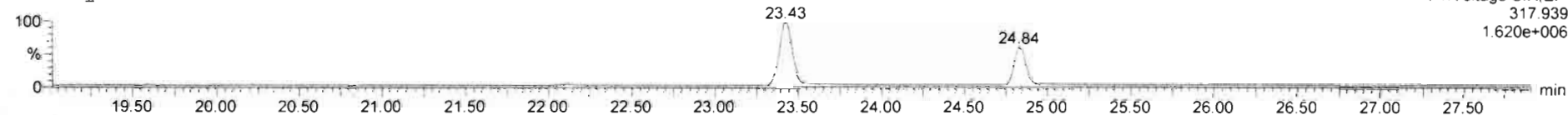


13C-2,3,7,8-TCDF

200203R1_12

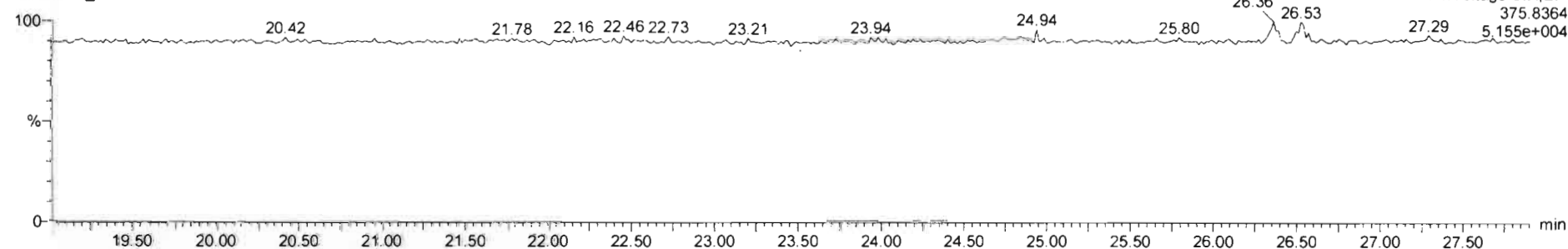


200203R1_12



DPE1

200203R1_12



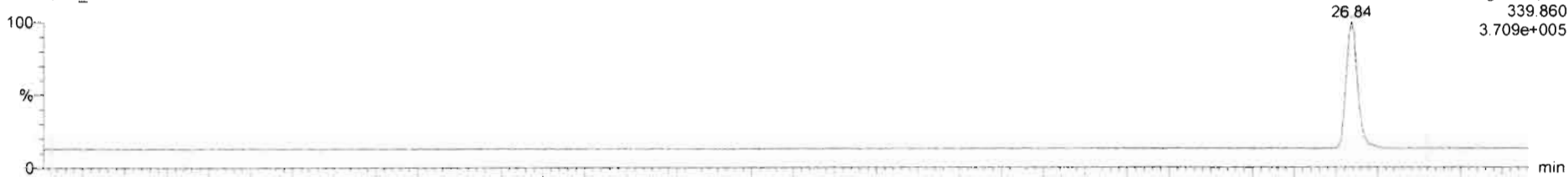
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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

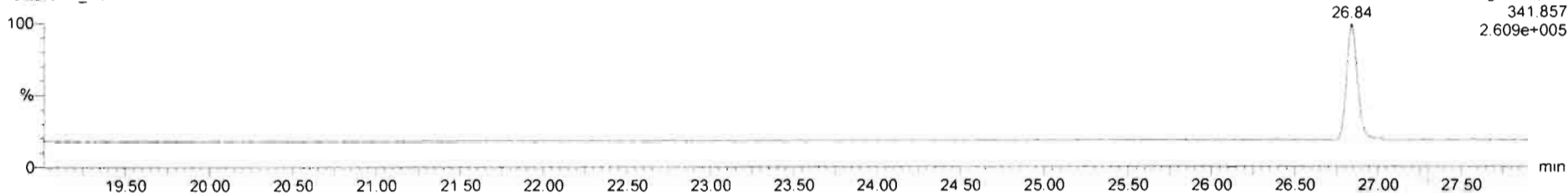
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1st Func. Penta-Furans

200203R1_12

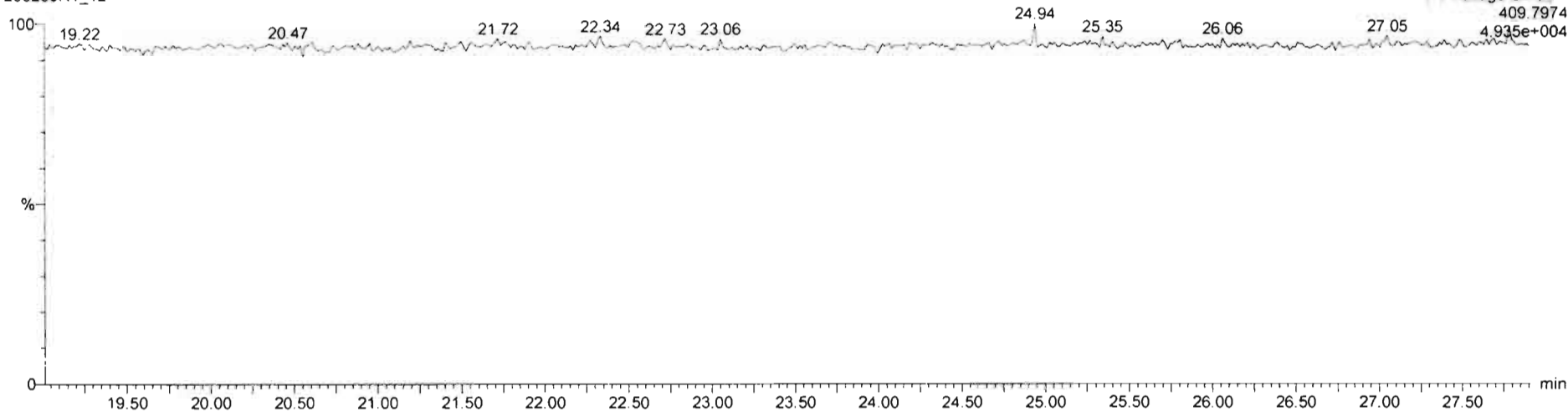


200203R1_12



DPE6

200203R1_12



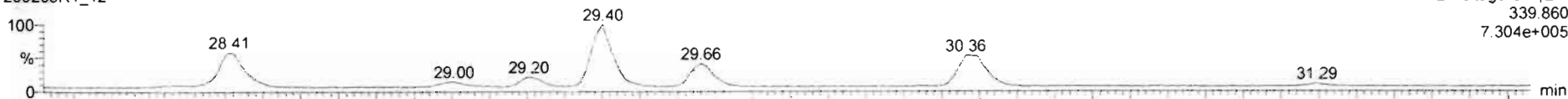
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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

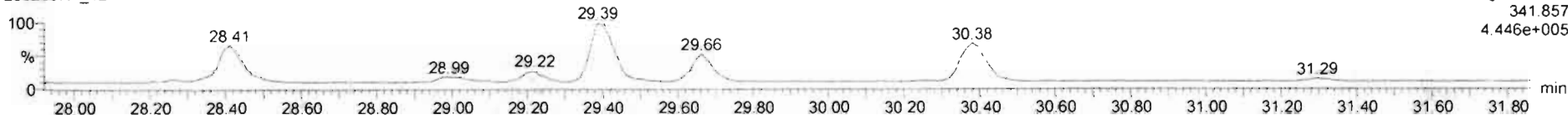
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1,2,3,7,8-PeCDF

200203R1_12



200203R1_12

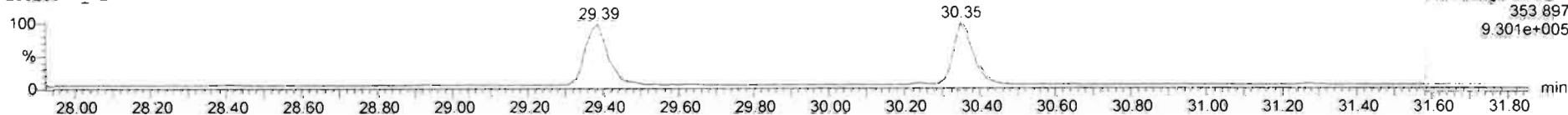


13C-1,2,3,7,8-PeCDF

200203R1_12

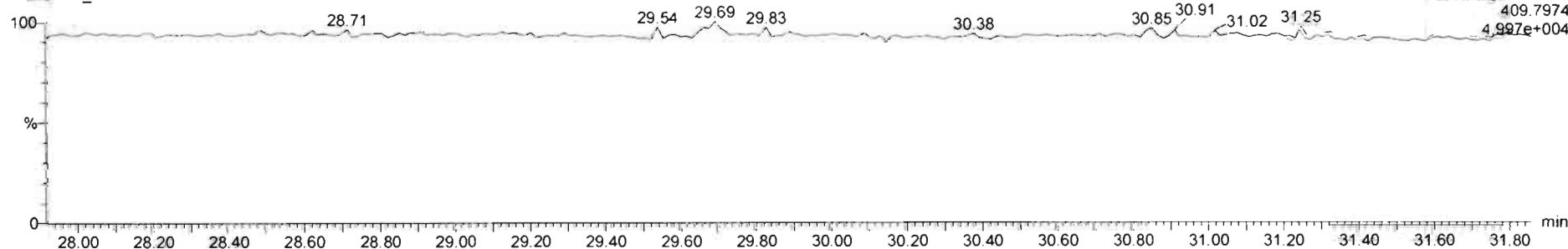


200203R1_12



DPE2

200203R1_12



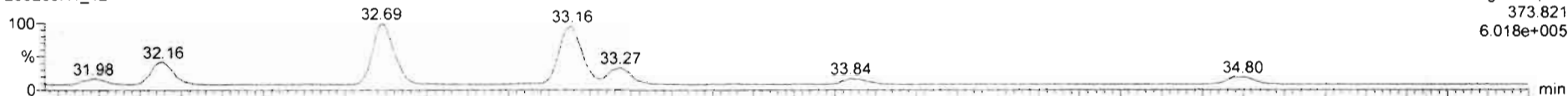
Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

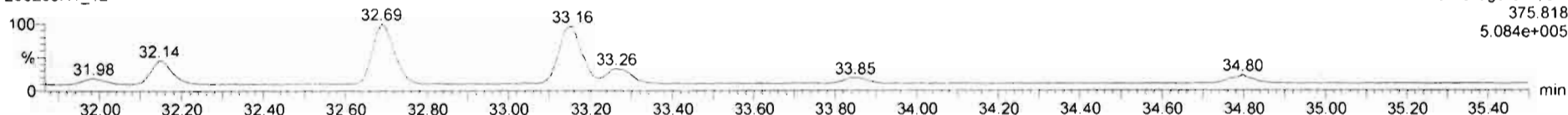
Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate

1,2,3,4,7,8-HxCDF

200203R1_12

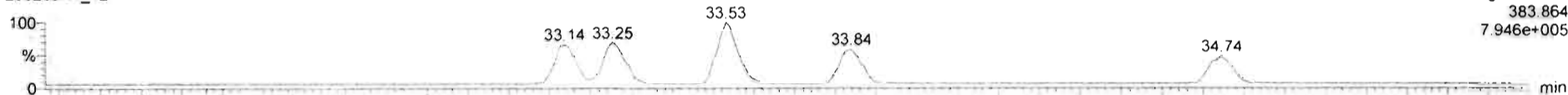


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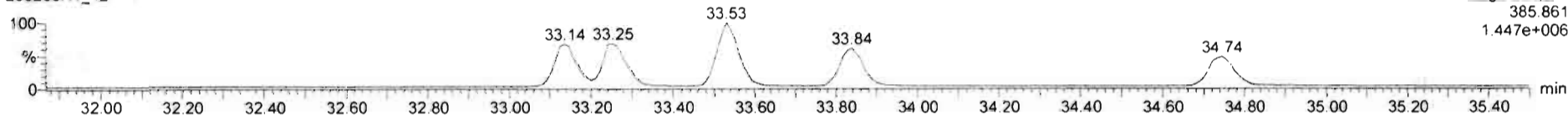


13C-1,2,3,4,7,8-HxCDF

200203R1_12

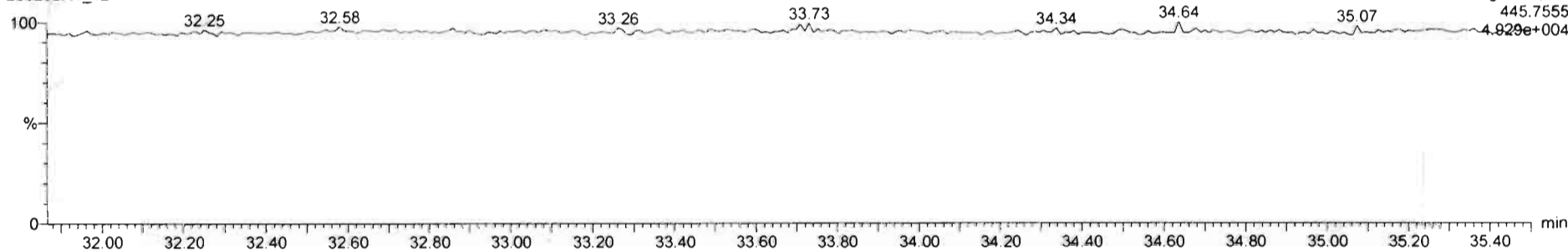


200203R1_12



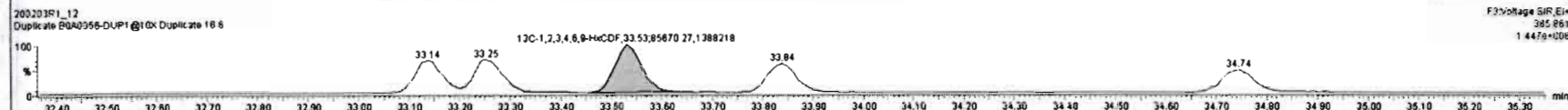
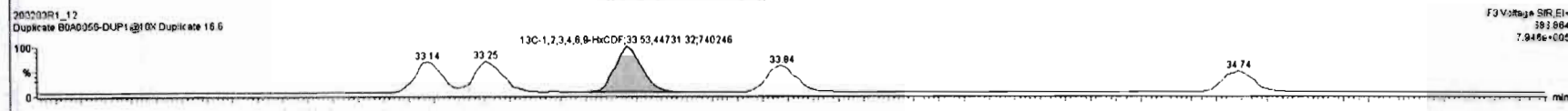
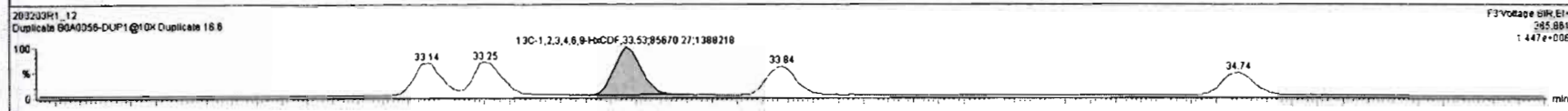
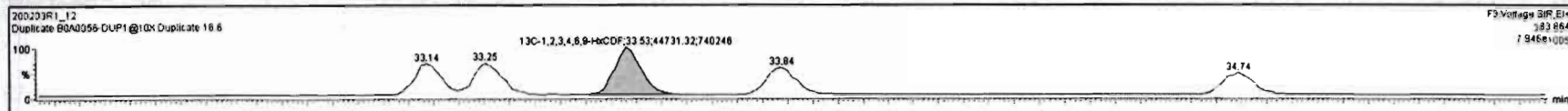
DPE3

200203R1_12



Name	Resp	RA	rvy	RNF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8,9-HxCDF	1.30e5	0.52	NO	1.0000	10.031	33.53	1.000	190	100	1.22	
39 Total Tetra-Dioxins				0.9881	10.031			21.1		1.42	38.8
40 Total Penta-Dioxins				0.9723	10.031			90.8		1.19	109
41 Total Hexa-Dioxins				0.8211	10.031			1210		3.81	1310
42 Total Hepta-Dioxins				0.8231	10.031			13200		15.5	13200
43 Total Tetra-Furans				0.8020	10.031			213		1.34	224
44 1st Func. Penta-Furans				0.9074	10.031			80.9		0.882	80.9
45 Total Penta-Furans				0.9074	10.031			343		1.80	343
46 Total Hexa-Furans				0.8982	10.031			484		1.98	484
47 Total Hepta-Furans				0.8511	10.031			1350		4.31	1350
48 PFHx1											

Name	RT	int Resp	m2 Resp	RA	rvy	EMPC	Conc.
1							



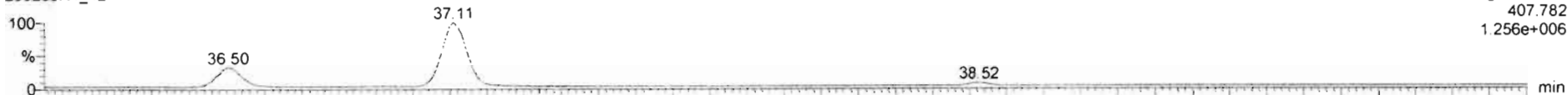
Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

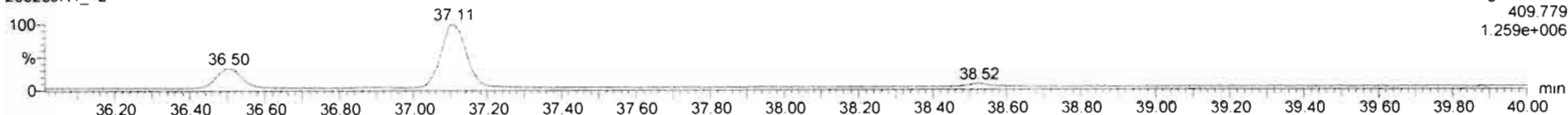
Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate

1,2,3,4,6,7,8-HpCDF

200203R1_12

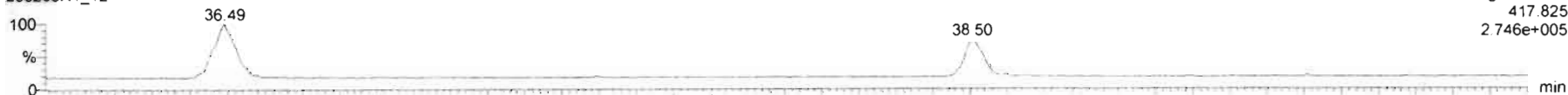


200203R1_12

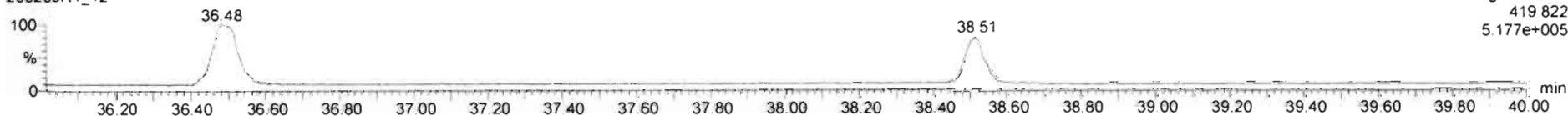


13C-1,2,3,4,6,7,8-HpCDF

200203R1_12

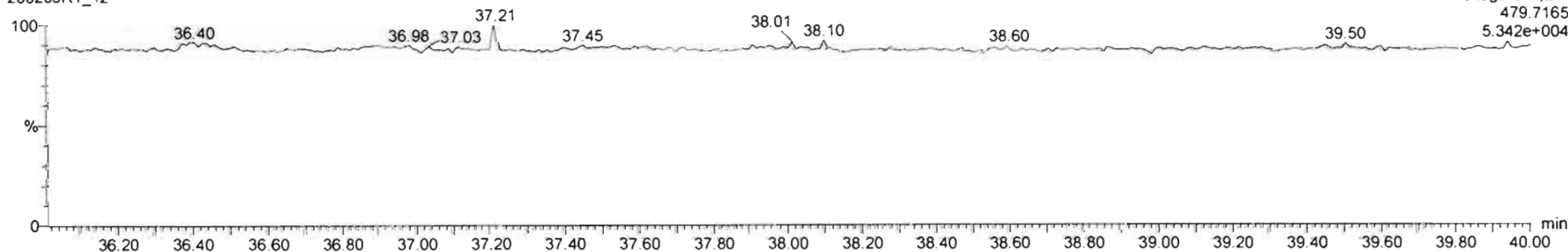


200203R1_12



DPE4

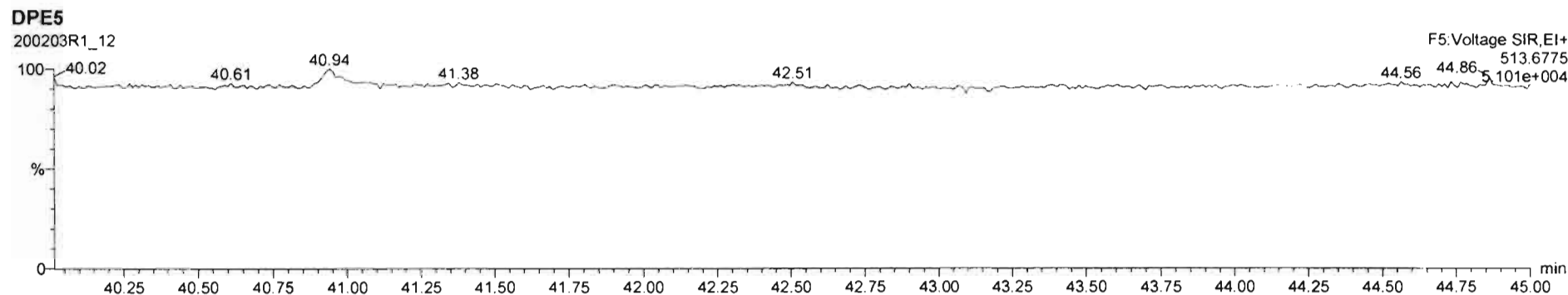
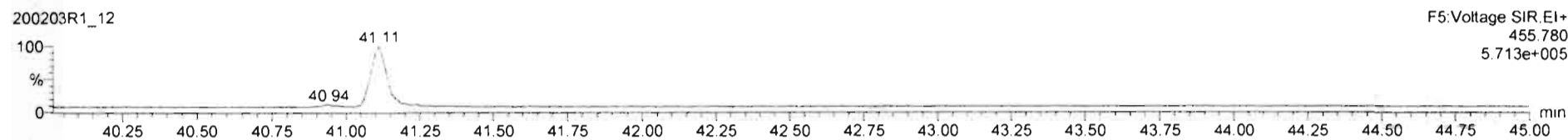
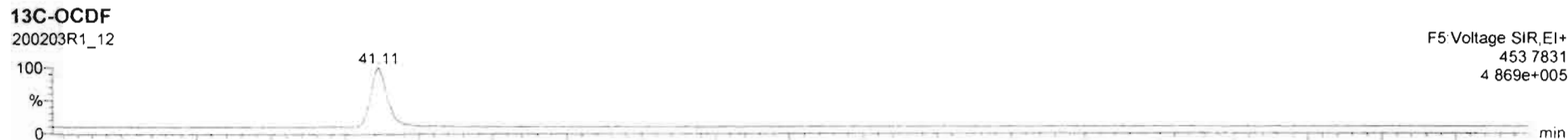
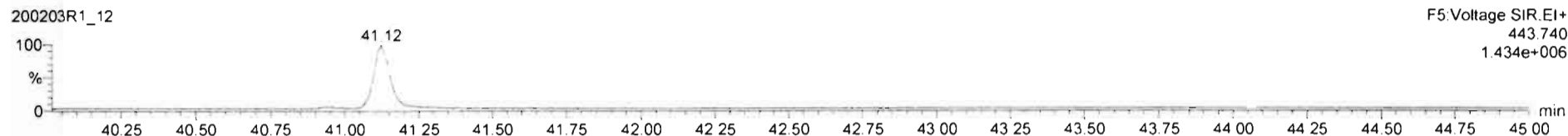
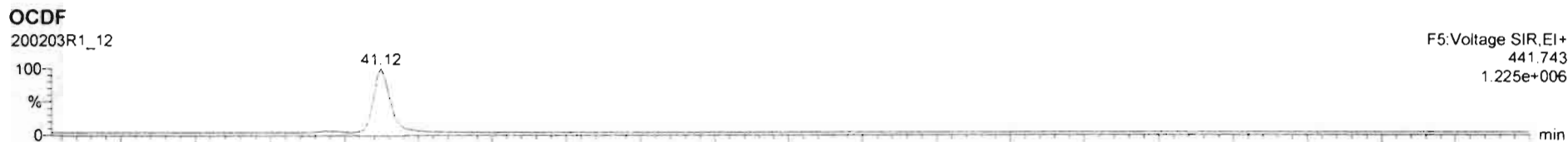
200203R1_12



Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate

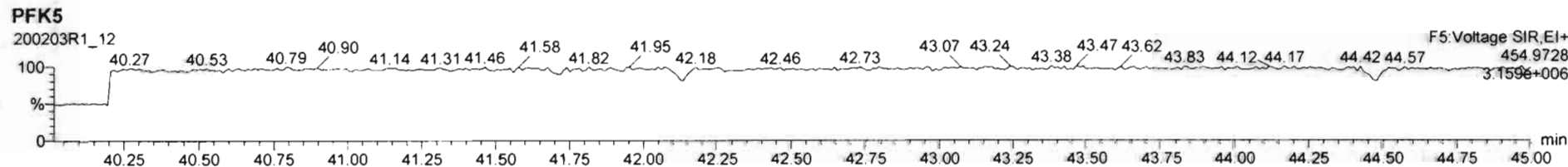
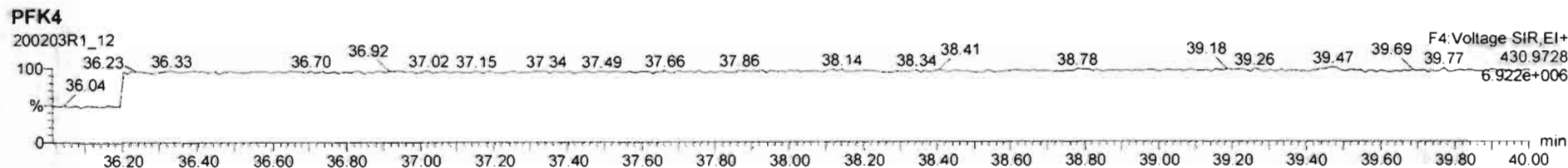
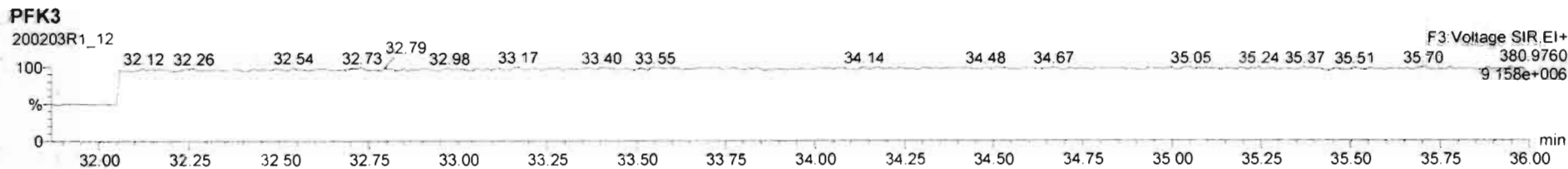
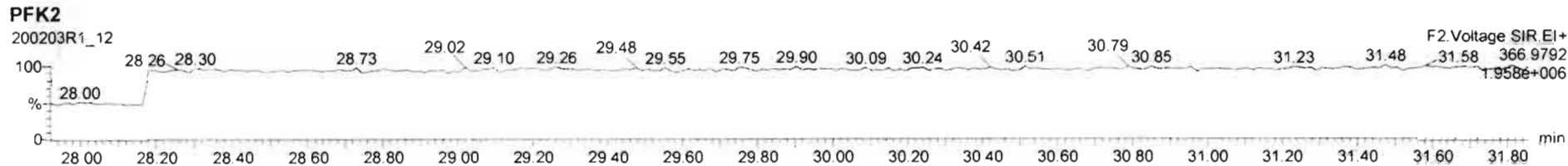
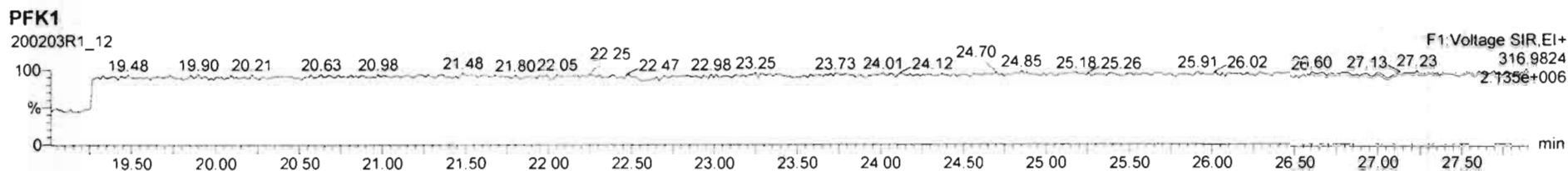


Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_12, Date: 03-Feb-2020, Time: 20:39:45, ID: B0A0056-DUP1@10X Duplicate 16.6, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200318R2\200318R2-7.qld

Last Altered: Thursday, March 19, 2020 3:22:26 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 3:22:56 PM Pacific Daylight Time

GPO 03/19/2020

C7 03/23/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_7, Date: 19-Mar-2020, Time: 08:17:35, ID: 1903654-08RE3 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.91e3	0.72	NO	0.983	10.212	26.141	26.14	1.001	1.001	1.9652		0.108	1.97
2	2 1,2,3,7,8-PeCDD	1.74e4	0.60	NO	0.921	10.212	31.193	31.19	1.001	1.000	4.7095		0.114	4.71
3	3 1,2,3,4,7,8-HxCDD	1.75e4	1.25	NO	1.13	10.212	34.544	34.54	1.000	1.000	4.9114		0.268	4.91
4	4 1,2,3,6,7,8-HxCDD	1.33e5	1.26	NO	0.984	10.212	34.640	34.66	1.000	1.001	37.537		0.276	37.5
5	5 1,2,3,7,8,9-HxCDD	5.20e4	1.29	NO	0.967	10.212	34.917	34.92	1.000	1.000	15.508		0.275	15.5
6	6 1,2,3,4,6,7,8-HpCDD	6.95e6	1.03	NO	1.01	10.212	38.380	38.39	1.000	1.001	2339.5		1.80	2340
7	7 OCDD	2.10e7	0.89	NO	1.05	10.212	41.521	41.54	1.000	1.001	11673	EX	1.28	11700
8	8 2,3,7,8-TCDF	6.08e4	0.78	NO	0.915	10.212	25.161	25.17	1.001	1.001	16.014	(4.1)	0.282	16.0
9	9 1,2,3,7,8-PeCDF	8.22e4	1.53	NO	0.959	10.212	29.941	29.93	1.001	1.001	17.873		0.136	17.9
10	10 2,3,4,7,8-PeCDF	9.12e4	1.58	NO	1.00	10.212	30.912	30.91	1.001	1.001	17.988		0.147	18.0
11	11 1,2,3,4,7,8-HxCDF	1.21e5	1.22	NO	1.04	10.212	33.693	33.71	1.000	1.001	27.916		0.128	27.9
12	12 1,2,3,6,7,8-HxCDF	5.18e4	1.23	NO	1.01	10.212	33.809	33.82	1.000	1.001	11.716		0.135	11.7
13	13 2,3,4,6,7,8-HxCDF	3.93e4	1.21	NO	1.09	10.212	34.408	34.38	1.001	1.000	9.0365		0.150	9.04
14	14 1,2,3,7,8,9-HxCDF	1.37e4	1.23	NO	1.03	10.212	35.237	35.28	1.000	1.001	3.6092		0.157	3.61
15	15 1,2,3,4,6,7,8-HpCDF	5.80e5	1.01	NO	1.05	10.212	36.989	36.97	1.001	1.001	171.61		0.356	172
16	16 1,2,3,4,7,8,9-HpCDF	2.45e4	1.01	NO	1.21	10.212	39.007	39.02	1.000	1.000	8.6433		0.438	8.64
17	17 OCDF	8.81e5	0.90	NO	0.947	10.212	41.702	41.71	1.000	1.000	409.43		0.394	409
18	18 13C-2,3,7,8-TCDD	7.01e5	0.79	NO	1.18	10.212	26.089	26.11	1.029	1.030	115.04	58.7	0.437	
19	19 13C-1,2,3,7,8-PeCDD	7.85e5	0.64	NO	0.864	10.212	31.344	31.17	1.236	1.229	176.59	90.2	0.224	
20	20 13C-1,2,3,4,7,8-HxCDD	6.15e5	1.28	NO	0.754	10.212	34.539	34.53	1.014	1.014	160.82	82.1	0.430	
21	21 13C-1,2,3,6,7,8-HxCDD	7.06e5	1.28	NO	0.925	10.212	34.648	34.64	1.017	1.017	150.51	76.9	0.350	
22	22 13C-1,2,3,7,8,9-HxCDD	6.79e5	1.27	NO	0.829	10.212	34.910	34.91	1.025	1.025	161.43	82.4	0.391	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.78e5	1.05	NO	0.598	10.212	38.378	38.37	1.127	1.126	190.60	97.3	0.487	
24	24 13C-OCDD	6.70e5	0.91	NO	0.571	10.212	41.535	41.52	1.219	1.219	231.49	59.1	0.253	
25	25 13C-2,3,7,8-TCDF	8.12e5	0.78	NO	1.09	10.212	25.097	25.14	0.990	0.991	108.27	55.3	0.463	
26	26 13C-1,2,3,7,8-PeCDF	9.39e5	1.57	NO	0.876	10.212	29.997	29.92	1.183	1.180	155.52	79.4	0.446	
27	27 13C-2,3,4,7,8-PeCDF	9.89e5	1.60	NO	0.844	10.212	31.022	30.88	1.223	1.218	170.27	86.9	0.464	
28	28 13C-1,2,3,4,7,8-HxCDF	8.17e5	0.52	NO	1.00	10.212	33.683	33.69	0.989	0.989	161.09	82.3	0.286	
29	29 13C-1,2,3,6,7,8-HxCDF	8.55e5	0.52	NO	1.12	10.212	33.792	33.80	0.992	0.992	150.80	77.0	0.256	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	10.212	34.375	34.37	1.009	1.009	148.49	75.8	0.276	
31	31 13C-1,2,3,7,8,9-HxCDF	7.23e5	0.52	NO	0.873	10.212	35.250	35.24	1.035	1.034	163.21	83.3	0.328	

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-7.qld

Last Altered: Thursday, March 19, 2020 3:22:26 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 3:22:56 PM Pacific Daylight Time

Name: 200318R2_7, Date: 19-Mar-2020, Time: 08:17:35, ID: 1903654-08RE3 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.32e5	0.44	NO	0.771	10.212	36.971	36.95	1.085	1.085	161.58	82.5	0.312	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.60e5	0.44	NO	0.519	10.212	39.062	39.01	1.147	1.145	174.54	89.1	0.463	
34	34 13C-OCDF	8.90e5	0.89	NO	0.696	10.212	41.716	41.70	1.225	1.224	252.19	64.4	0.301	
35	35 37Cl-2,3,7,8-TCDD	2.66e5			1.17	10.212	26.099	26.14	1.029	1.031	44.074	56.3	0.0787	
36	36 13C-1,2,3,4-TCDD	1.01e6	0.78	NO	1.00	10.212	25.360	25.36	1.000	1.000	195.84	100	0.518	
37	37 13C-1,2,3,4-TCDF	1.35e6	0.80	NO	1.00	10.212	23.190	23.58	1.000	1.000	195.84	100	0.504	
38	38 13C-1,2,3,4,6,9-HxCDF	9.93e5	0.51	NO	1.00	10.212	34.070	34.06	1.000	1.000	195.84	100	0.286	
39	39 Total Tetra-Dioxins				0.983	10.212	24.620		0.000		46.418		0.108	46.4
40	40 Total Penta-Dioxins				0.921	10.212	29.960		0.000		101.73		0.114	102
41	41 Total Hexa-Dioxins				0.984	10.212	33.635		0.000		627.79		0.284	628
42	42 Total Hepta-Dioxins				1.01	10.212	37.640		0.000		4926.7		1.80	4930
43	43 Total Tetra-Furans				0.915	10.212	23.610		0.000		95.492		0.282	100 P
44	44 1st Func. Penta-Furans				0.959	10.212	27.490		0.000		109.74		0.0444	110 P
45	45 Total Penta-Furans				0.959	10.212	29.275		0.000		119.24		0.145	119
46	46 Total Hexa-Furans				1.09	10.212	33.555		0.000		222.26		0.136	222
47	47 Total Hepta-Furans				1.05	10.212	37.835		0.000		583.36		0.419	583

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-7.qld

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Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_7, Date: 19-Mar-2020, Time: 08:17:35, ID: 1903654-08RE3 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.99	6.206e4	8.747e4	6.042e3	8.453e3	0.71	NO	1.450e4	4.1203	4.1203	0.108
2	Total Tetra-Dioxins	22.47	3.602e4	4.203e4	4.428e3	5.462e3	0.81	NO	9.890e3	2.8113	2.8113	0.108
3	Total Tetra-Dioxins	22.83	4.817e4	6.804e4	5.238e3	6.771e3	0.77	NO	1.201e4	3.4134	3.4134	0.108
4	Total Tetra-Dioxins	23.91	1.492e4	2.389e4	1.973e3	2.929e3	0.67	NO	4.902e3	1.3935	1.3935	0.108
5	Total Tetra-Dioxins	24.15	1.438e5	1.939e5	7.360e3	1.026e4	0.72	NO	1.762e4	5.0072	5.0072	0.108
6	Total Tetra-Dioxins	24.24	8.862e4	1.052e5	6.882e3	8.908e3	0.77	NO	1.579e4	4.4884	4.4884	0.108
7	Total Tetra-Dioxins	24.46	3.857e4	4.669e4	3.211e3	4.345e3	0.74	NO	7.556e3	2.1479	2.1479	0.108
8	Total Tetra-Dioxins	24.76	2.618e4	3.381e4	2.369e3	2.978e3	0.80	NO	5.347e3	1.5199	1.5199	0.108
9	Total Tetra-Dioxins	24.96	7.515e4	9.785e4	6.709e3	8.575e3	0.78	NO	1.528e4	4.3443	4.3443	0.108
10	Total Tetra-Dioxins	25.36	6.542e4	7.778e4	5.242e3	6.664e3	0.79	NO	1.191e4	3.3841	3.3841	0.108
11	Total Tetra-Dioxins	25.50	1.978e4	2.762e4	1.391e3	1.994e3	0.70	NO	3.385e3	0.96214	0.96214	0.108
12	Total Tetra-Dioxins	25.83	5.321e4	6.619e4	5.506e3	7.601e3	0.72	NO	1.311e4	3.7257	3.7257	0.108
13	Total Tetra-Dioxins	25.94	4.904e4	5.922e4	3.566e3	4.360e3	0.82	NO	7.926e3	2.2529	2.2529	0.108
14	2,3,7,8-TCDD	26.14	4.095e4	5.777e4	2.893e3	4.021e3	0.72	NO	6.914e3	1.9652	1.9652	0.108
15	Total Tetra-Dioxins	26.48	7.728e4	1.002e5	6.386e3	8.120e3	0.79	NO	1.451e4	4.1235	4.1235	0.108
16	Total Tetra-Dioxins	26.63	1.753e4	2.288e4	1.226e3	1.442e3	0.85	NO	2.667e3	0.75818	0.75818	0.108

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Method: 200318R2_7, Date: 19-Mar-2020, Time: 03:17:05, ID: 1903654-02RE3-PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	4.574e5	7.585e5	4.022e4	6.574e4	0.61	NO	1.060e5	28.699	28.699	0.114
2	Total Penta-Dioxins	29.45	2.244e5	3.770e5	1.387e4	2.305e4	0.60	NO	3.692e4	9.9983	9.9983	0.114
3	Total Penta-Dioxins	29.98	2.473e5	4.298e5	1.513e4	2.446e4	0.62	NO	3.959e4	10.723	10.723	0.114
4	Total Penta-Dioxins	30.12	2.015e5	3.165e5	1.112e4	1.789e4	0.62	NO	2.901e4	7.8571	7.8571	0.114
5	Total Penta-Dioxins	30.23	1.575e5	2.526e5	9.570e3	1.576e4	0.61	NO	2.533e4	6.8613	6.8613	0.114
6	Total Penta-Dioxins	30.44	4.458e5	7.216e5	3.155e4	5.028e4	0.63	NO	8.183e4	22.163	22.163	0.114
7	Total Penta-Dioxins	30.74	4.272e4	7.829e4	2.942e3	4.472e3	0.66	NO	7.414e3	2.0079	2.0079	0.114
8	1,2,3,7,8-PeCDD	31.19	1.233e5	2.108e5	6.488e3	1.090e4	0.60	NO	1.739e4	4.7095	4.7095	0.114
9	Total Penta-Dioxins	31.26	1.263e5	2.020e5	6.520e3	1.089e4	0.60	NO	1.741e4	4.7157	4.7157	0.114
10	Total Penta-Dioxins	31.46	2.055e4	1.724e4	1.043e3	5.959e2	1.75	YES	0.000e0	0.00000	0.26308	0.114
11	Total Penta-Dioxins	31.57	1.059e5	1.660e5	5.835e3	8.904e3	0.66	NO	1.474e4	3.9919	3.9919	0.114

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.10	1.051e7	8.319e6	5.243e5	4.206e5	1.25	NO	9.450e5	281.98	281.98	0.284
2	Total Hexa-Dioxins	33.64	1.207e6	9.916e5	5.372e4	4.282e4	1.25	NO	9.653e4	28.806	28.806	0.284
3	Total Hexa-Dioxins	33.88	6.635e6	5.344e6	4.412e5	3.519e5	1.25	NO	7.931e5	236.67	236.67	0.284
4	Total Hexa-Dioxins	34.00	3.118e5	2.466e5	1.638e4	1.262e4	1.30	NO	2.900e4	8.6535	8.6535	0.284
5	1,2,3,4,7,8-HxCDD	34.54	1.785e5	1.435e5	9.706e3	7.755e3	1.25	NO	1.746e4	4.9114	4.9114	0.268
6	1,2,3,6,7,8-HxCDD	34.66	1.305e6	1.006e6	7.435e4	5.891e4	1.26	NO	1.333e5	37.537	37.537	0.276
7	Total Hexa-Dioxins	34.83	4.736e5	3.940e5	2.570e4	2.029e4	1.27	NO	4.599e4	13.724	13.724	0.284
8	1,2,3,7,8,9-HxCDD	34.92	5.104e5	4.018e5	2.925e4	2.276e4	1.29	NO	5.201e4	15.508	15.508	0.275

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.36	5.063e7	4.903e7	3.892e6	3.792e6	1.03	NO	7.684e6	2587.2	2587.2	1.80
2	1,2,3,4,6,7,8-HpCDD	38.39	3.996e7	3.873e7	3.524e6	3.425e6	1.03	NO	6.949e6	2339.5	2339.5	1.80

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Name: 200318R2_7, Date: 19-Mar-2020, Time: 08:17:35, ID: 1903654-08RE3 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.97	1.006e4	1.256e4	9.509e2	1.095e3	0.87	NO	2.046e3	0.53877	0.53877	0.282
2	Total Tetra-Furans	20.39	7.438e4	9.271e4	5.385e3	7.009e3	0.77	NO	1.239e4	3.2635	3.2635	0.282
3	Total Tetra-Furans	20.66	6.997e3	1.253e4	4.240e2	1.017e3	0.42	YES	0.000e0	0.00000	0.25662	0.282
4	Total Tetra-Furans	21.02	5.595e5	7.259e5	3.793e4	5.101e4	0.74	NO	8.895e4	23.423	23.423	0.282
5	Total Tetra-Furans	21.51	2.383e4	3.490e4	4.495e3	6.212e3	0.72	NO	1.071e4	2.8195	2.8195	0.282
6	Total Tetra-Furans	21.96	9.275e4	1.139e5	9.830e3	1.229e4	0.80	NO	2.212e4	5.8240	5.8240	0.282
7	Total Tetra-Furans	22.49	1.025e5	1.286e5	7.605e3	1.850e4	0.41	YES	0.000e0	0.00000	4.6031	0.282
8	Total Tetra-Furans	22.71	3.537e4	4.640e4	1.417e3	1.801e3	0.79	NO	3.218e3	0.84746	0.84746	0.282
9	Total Tetra-Furans	23.34	2.460e4	3.195e4	2.576e3	3.822e3	0.67	NO	6.399e3	1.6849	1.6849	0.282
10	Total Tetra-Furans	23.58	1.910e5	2.611e5	2.063e4	2.791e4	0.74	NO	4.854e4	12.781	12.781	0.282
11	Total Tetra-Furans	24.18	6.515e5	8.420e5	1.983e4	2.607e4	0.76	NO	4.590e4	12.086	12.086	0.282
12	Total Tetra-Furans	24.42	1.403e4	1.967e4	1.262e3	1.460e3	0.86	NO	2.722e3	0.71685	0.71685	0.282
13	Total Tetra-Furans	24.61	1.193e4	1.373e4	1.046e3	1.302e3	0.80	NO	2.349e3	0.61844	0.61844	0.282
14	Total Tetra-Furans	24.91	1.304e4	1.679e4	1.343e3	1.582e3	0.85	NO	2.925e3	0.77014	0.77014	0.282
15	Total Tetra-Furans	25.05	4.580e4	5.798e4	3.433e3	4.036e3	0.85	NO	7.469e3	1.9668	1.9668	0.282
16	2,3,7,8-TCDF	25.17	3.125e5	4.122e5	2.660e4	3.421e4	0.78	NO	6.081e4	16.014	16.014	0.282
17	Total Tetra-Furans	25.54	4.187e4	5.121e4	2.733e3	3.720e3	0.73	NO	6.453e3	1.6993	1.6993	0.282
18	Total Tetra-Furans	26.11	1.959e4	2.471e4	1.436e3	1.687e3	0.85	NO	3.123e3	0.82233	0.82233	0.282
19	Total Tetra-Furans	26.72	9.224e4	1.126e5	7.869e3	1.084e4	0.73	NO	1.871e4	4.9267	4.9267	0.282
20	Total Tetra-Furans	26.92	8.157e4	1.108e5	7.623e3	1.018e4	0.75	NO	1.781e4	4.6891	4.6891	0.282

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.49	3.309e6	2.080e6	1.574e5	1.014e5	1.55	NO	2.587e5	54.774	54.774	0.0444
2	1st Func. Penta-Furans	27.49	3.313e6	2.080e6	1.581e5	1.015e5	1.56	NO	2.596e5	54.969	54.969	0.0444

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Name: 200318R2_7, Date: 19-Mar-2020, Time: 08:47:35, ID: 1903654-03RE3-PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.71	1.289e5	7.550e4	1.071e4	7.151e3	1.50	NO	1.787e4	3.7824	3.7824	0.145
2	Total Penta-Furans	28.88	1.572e6	1.012e6	1.207e5	7.821e4	1.54	NO	1.989e5	42.114	42.114	0.145
3	Total Penta-Furans	29.51	7.671e5	5.362e5	4.756e4	3.189e4	1.49	NO	7.945e4	16.820	16.820	0.145
4	Total Penta-Furans	29.72	1.119e5	7.070e4	7.082e3	4.353e3	1.63	NO	1.143e4	2.4208	2.4208	0.145
5	1,2,3,7,8-PeCDF	29.93	1.288e6	8.191e5	4.974e4	3.247e4	1.53	NO	8.221e4	17.873	17.873	0.136
6	Total Penta-Furans	30.18	5.131e5	2.966e5	3.133e4	2.022e4	1.55	NO	5.155e4	10.914	10.914	0.145
7	Total Penta-Furans	30.76	4.179e4	2.647e4	2.182e3	1.508e3	1.45	NO	3.691e3	0.78135	0.78135	0.145
8	2,3,4,7,8-PeCDF	30.91	1.201e6	7.798e5	5.587e4	3.533e4	1.58	NO	9.120e4	17.988	17.988	0.147
9	Total Penta-Furans	30.93	9.425e5	5.517e5	1.539e4	9.055e3	1.70	NO	2.444e4	5.1743	5.1743	0.145
10	Total Penta-Furans	31.81	6.143e4	3.581e4	4.011e3	2.485e3	1.61	NO	6.497e3	1.3754	1.3754	0.145

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.66	1.344e6	1.080e6	4.076e4	3.322e4	1.23	NO	7.397e4	16.719	16.719	0.136
2	Total Hexa-Furans	32.73	4.358e6	3.523e6	1.358e5	1.103e5	1.23	NO	2.461e5	55.630	55.630	0.136
3	Total Hexa-Furans	33.06	5.046e4	4.233e4	2.496e3	2.196e3	1.14	NO	4.692e3	1.0604	1.0604	0.136
4	Total Hexa-Furans	33.25	4.716e6	3.998e6	2.289e5	1.877e5	1.22	NO	4.166e5	94.162	94.162	0.136
5	Total Hexa-Furans	33.61	4.348e4	2.741e4	1.793e3	1.465e3	1.22	NO	3.258e3	0.73644	0.73644	0.136
6	1,2,3,4,7,8-HxCDF	33.71	1.508e6	1.209e6	6.637e4	5.453e4	1.22	NO	1.209e5	27.916	27.916	0.128
7	1,2,3,6,7,8-HxCDF	33.82	5.769e5	4.408e5	2.853e4	2.325e4	1.23	NO	5.178e4	11.716	11.716	0.135
8	Total Hexa-Furans	34.09	2.741e4	2.235e4	1.265e3	1.132e3	1.12	NO	2.396e3	0.54157	0.54157	0.136
9	Total Hexa-Furans	34.26	1.522e4	6.798e3	4.791e2	3.702e2	1.29	NO	8.493e2	0.19195	0.19195	0.136
10	2,3,4,6,7,8-HxCDF	34.38	3.740e5	3.193e5	2.150e4	1.778e4	1.21	NO	3.928e4	9.0365	9.0365	0.150
11	1,2,3,7,8,9-HxCDF	35.28	1.645e5	1.398e5	7.533e3	6.140e3	1.23	NO	1.367e4	3.6092	3.6092	0.157
12	Total Hexa-Furans	35.30	1.304e5	1.070e5	2.232e3	1.919e3	1.16	NO	4.151e3	0.93818	0.93818	0.136

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ID: 1903654-09RE3 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.97	3.949e6	3.896e6	2.911e5	2.890e5	1.01	NO	5.801e5	171.61	171.61	0.356
2	Total Hepta-Furans	37.36	4.362e4	4.901e4	4.062e3	4.174e3	0.97	NO	8.236e3	2.8204	2.8204	0.419
3	Total Hepta-Furans	37.56	7.302e6	7.217e6	5.869e5	5.820e5	1.01	NO	1.169e6	400.29	400.29	0.419
4	1,2,3,4,7,8,9-HpCDF	39.02	1.666e5	1.631e5	1.233e4	1.221e4	1.01	NO	2.454e4	8.6433	8.6433	0.438

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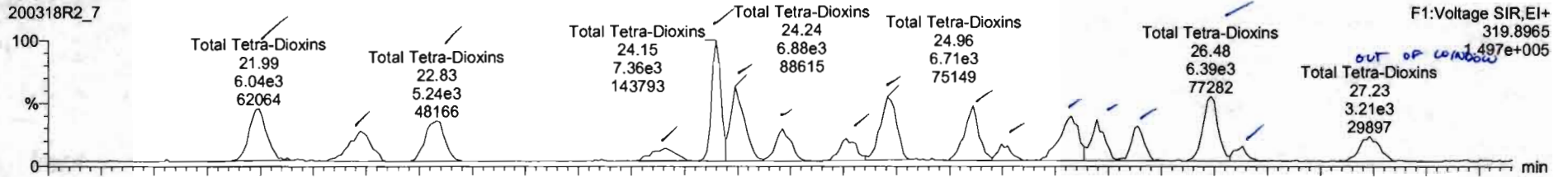
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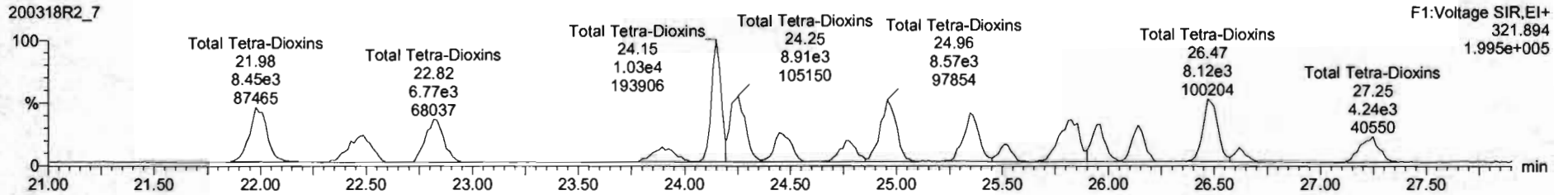
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2,3,7,8-TCDD

200318R2_7

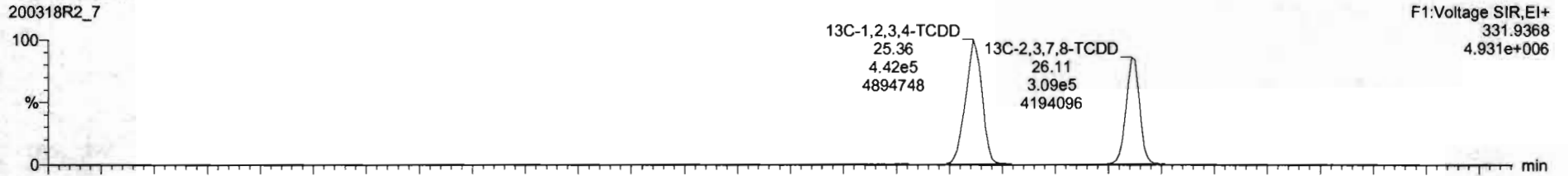


200318R2_7

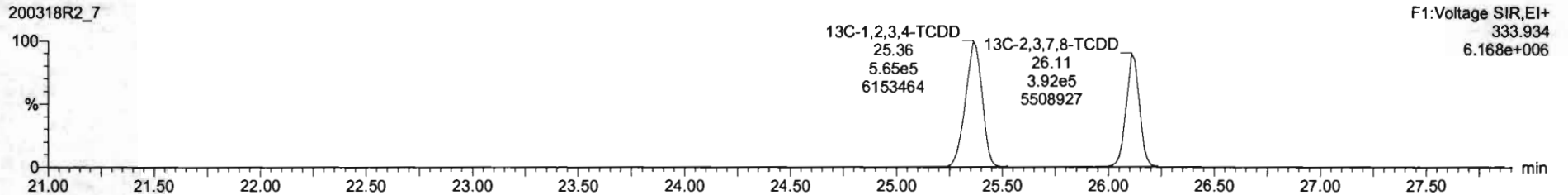


13C-2,3,7,8-TCDD

200318R2_7



200318R2_7



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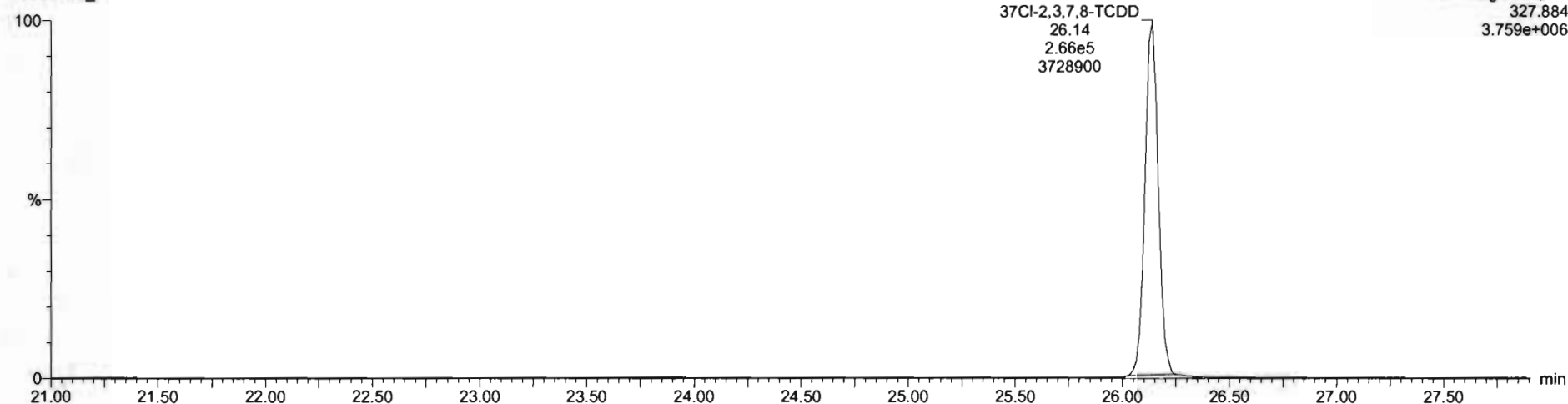
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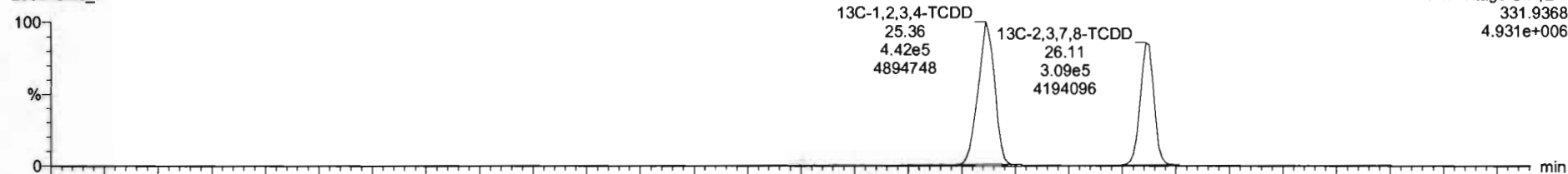
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200318R2_7

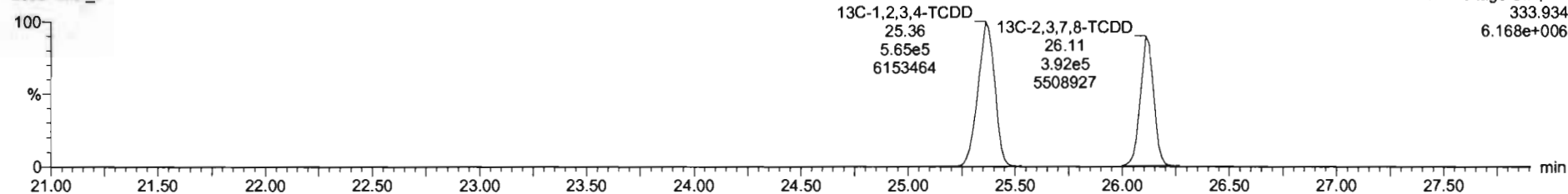


13C-1,2,3,4-TCDD

200318R2_7



200318R2_7



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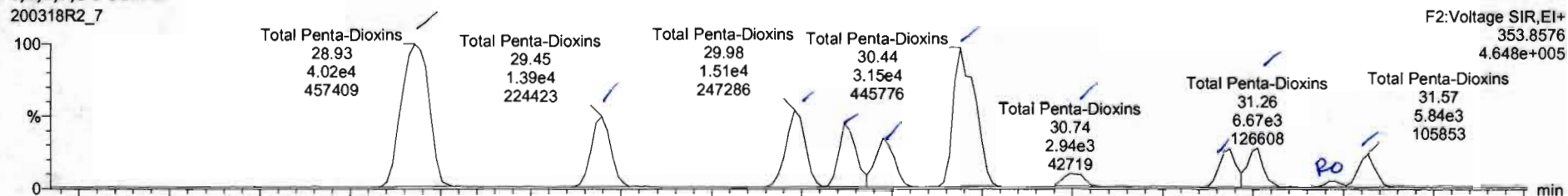
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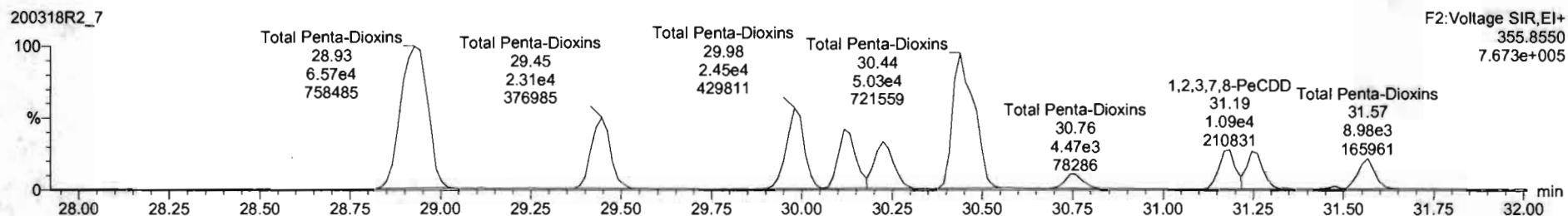
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1,2,3,7,8-PeCDD

200318R2_7

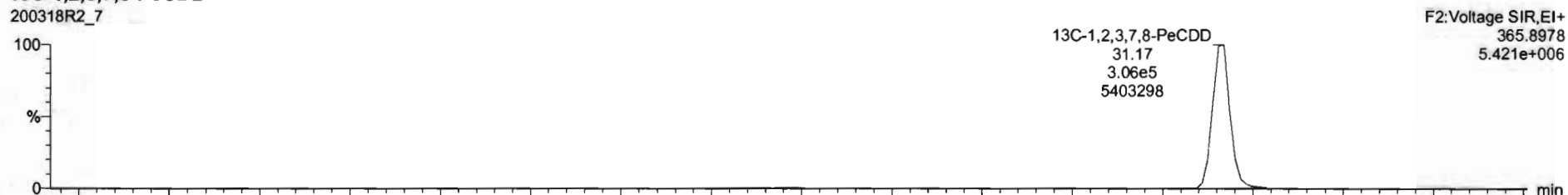


200318R2_7

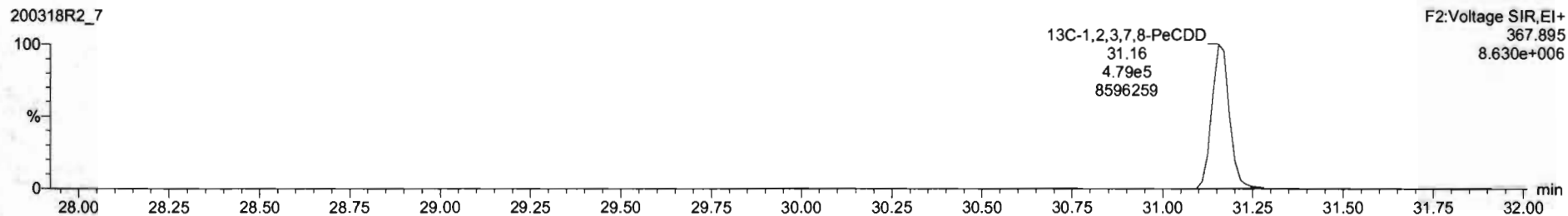


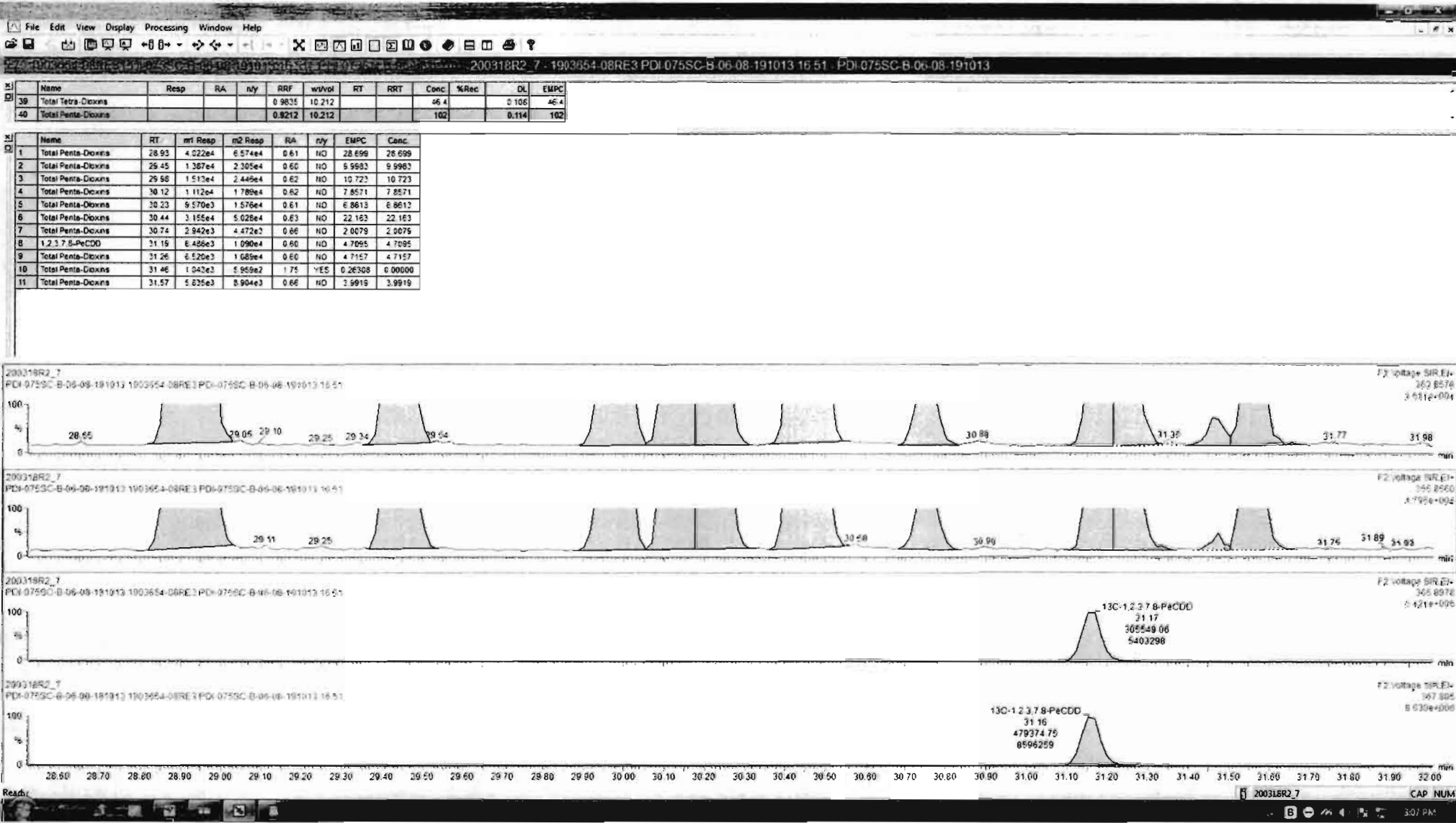
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200318R2_7



200318R2_7





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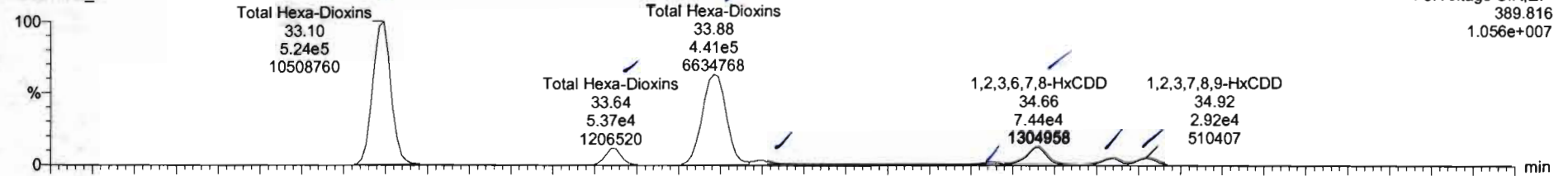
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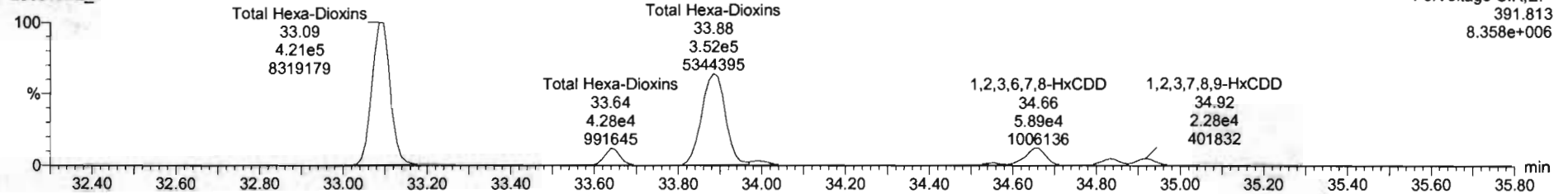
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1,2,3,4,7,8-HxCDD

200318R2_7

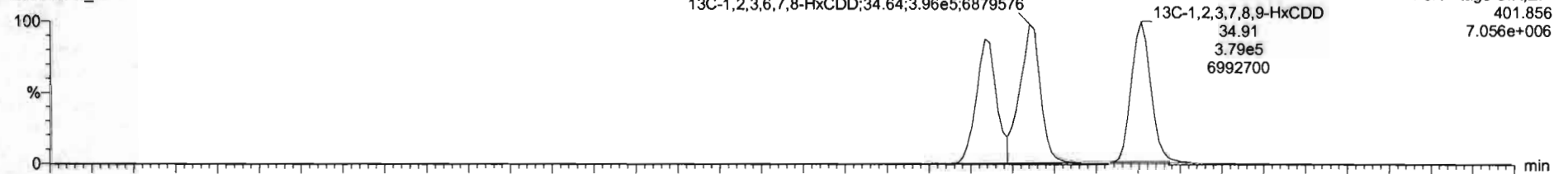


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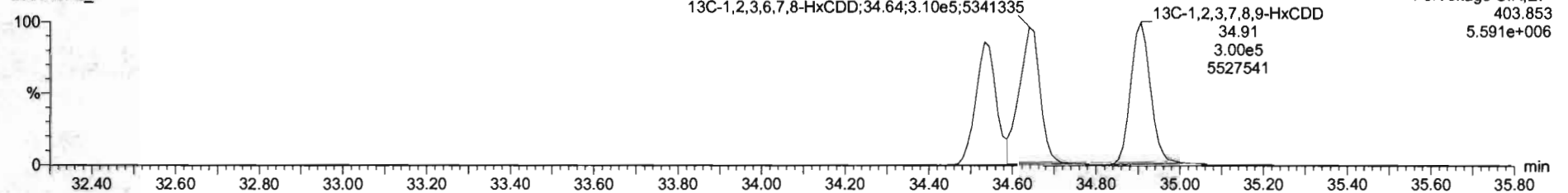


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200318R2_7



200318R2_7



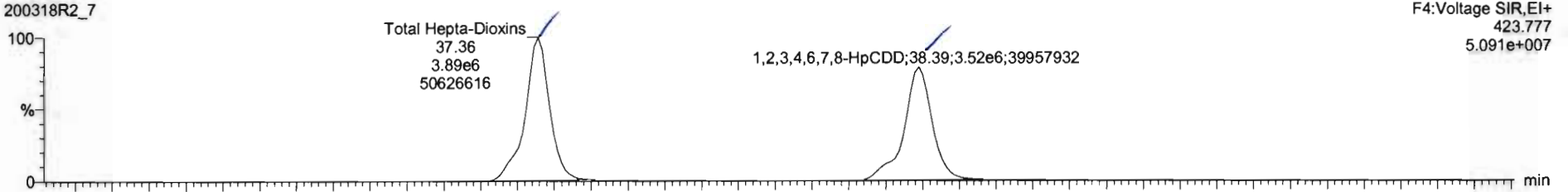
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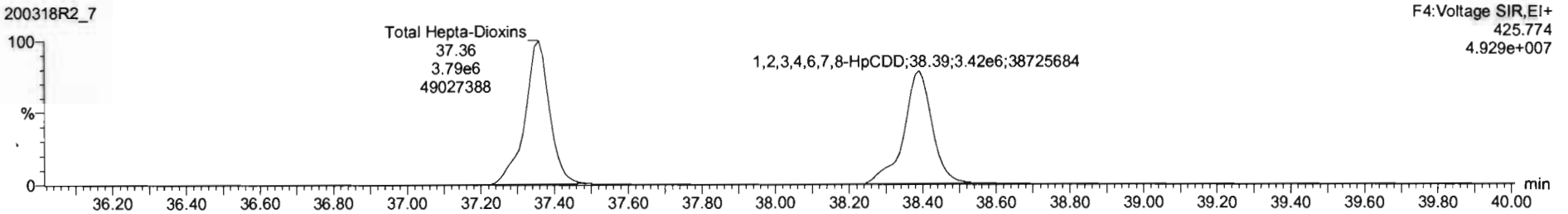
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1,2,3,4,6,7,8-HpCDD

200318R2_7

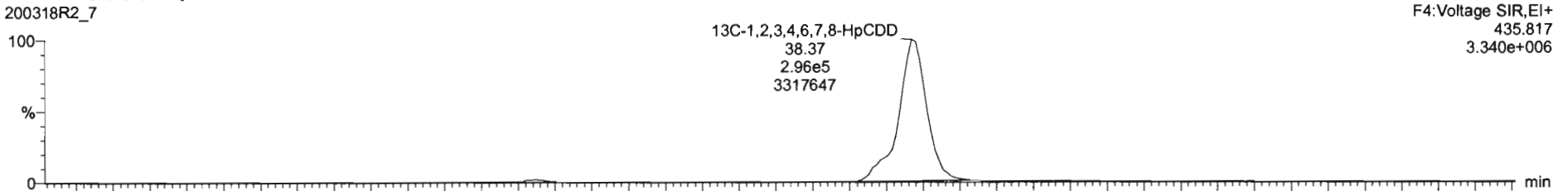


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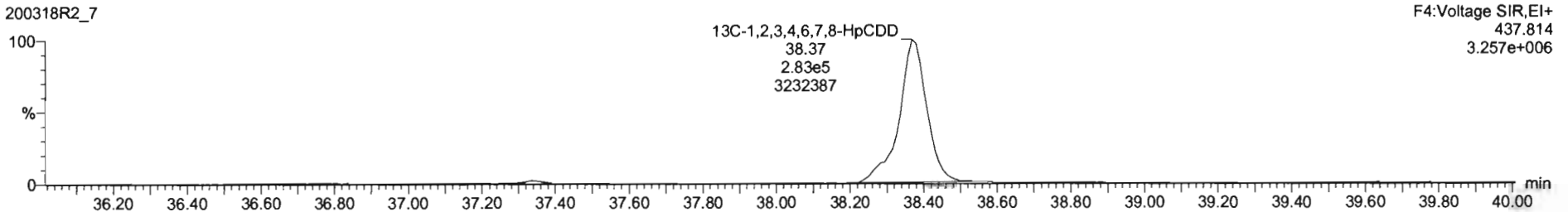


13C-1,2,3,4,6,7,8-HpCDD

200318R2_7



200318R2_7

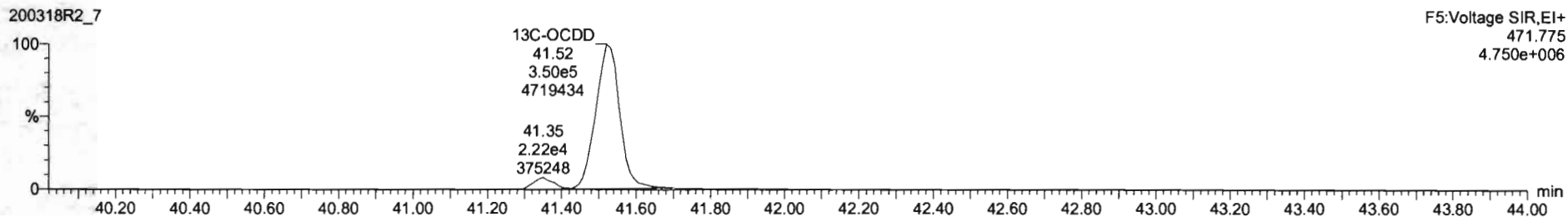
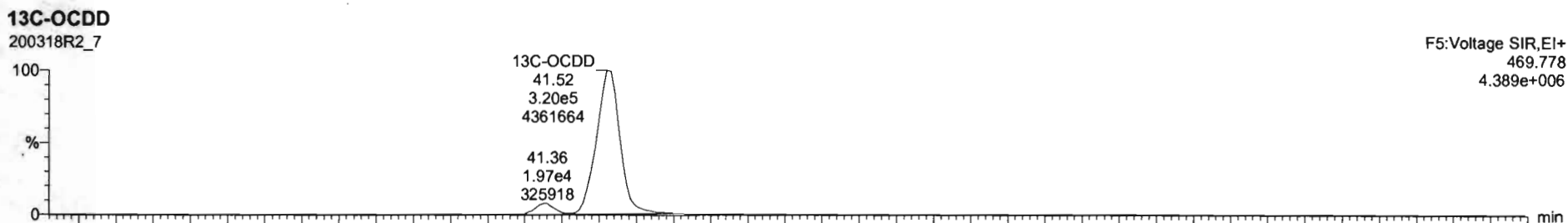
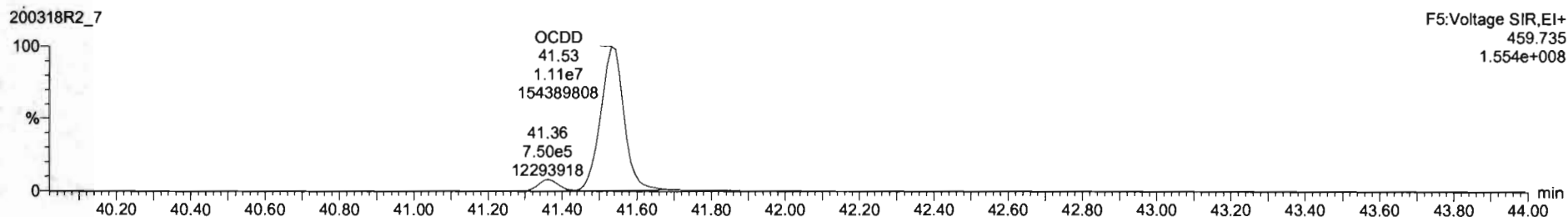
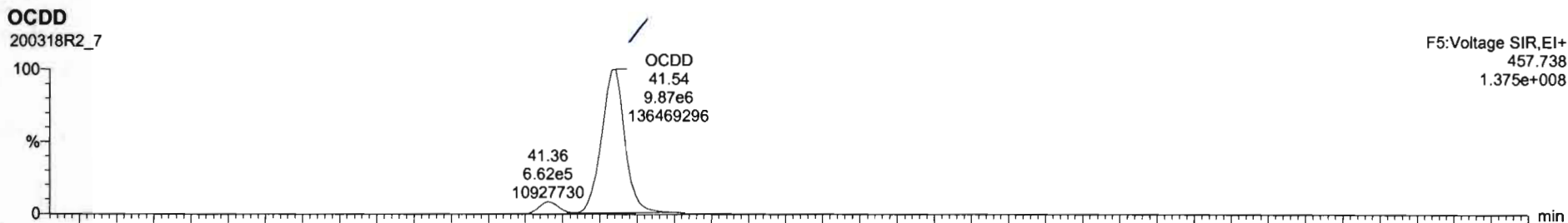


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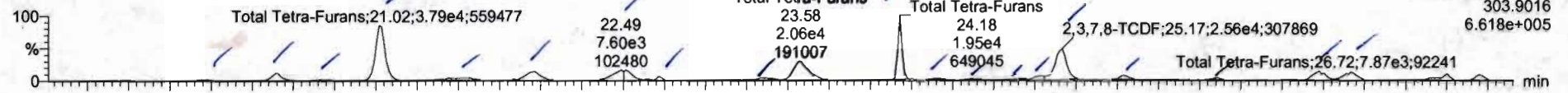
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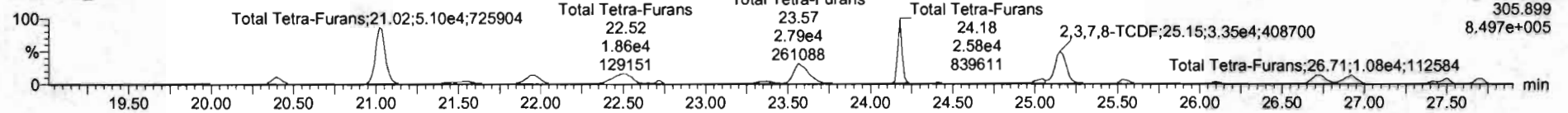
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2,3,7,8-TCDF

200318R2_7

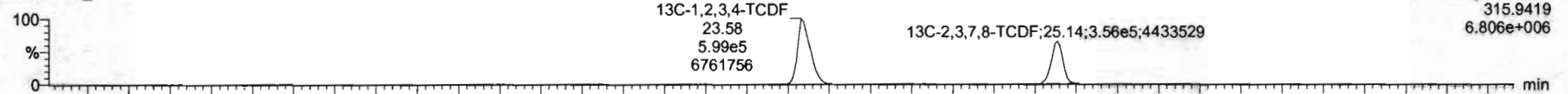


200318R2_7

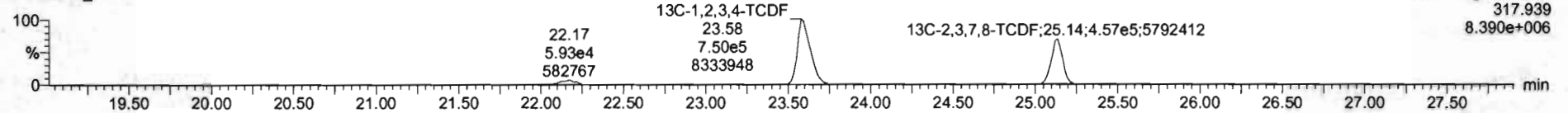


13C-2,3,7,8-TCDF

200318R2_7

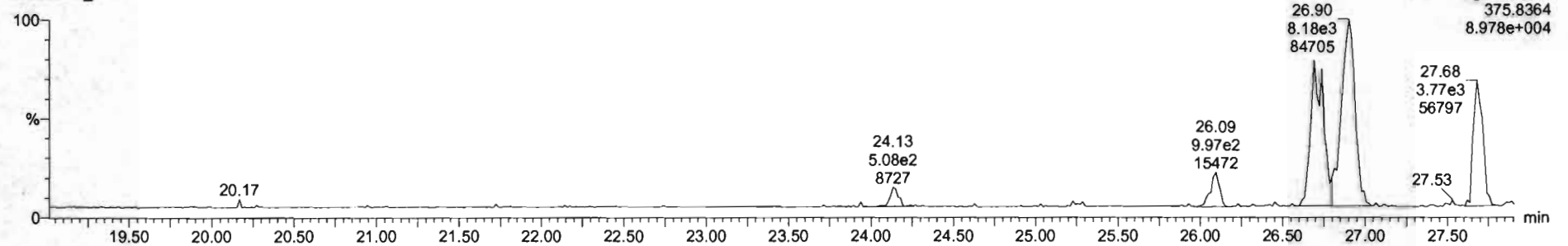


200318R2_7



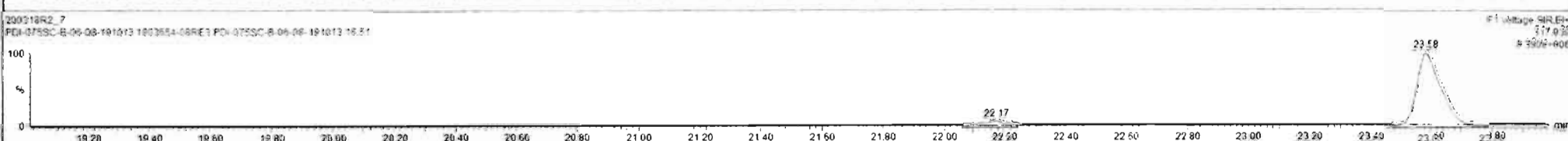
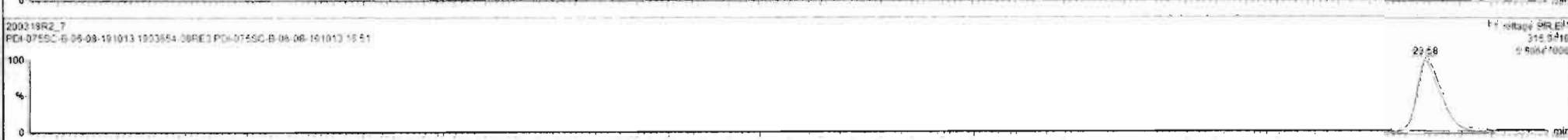
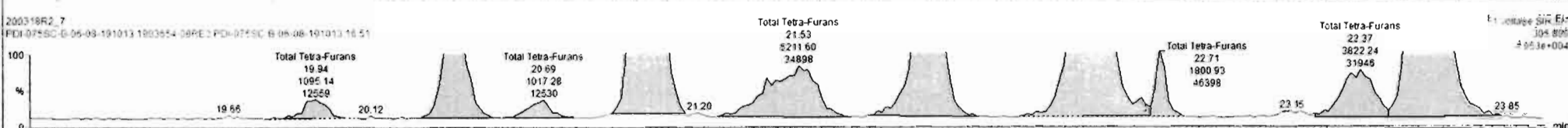
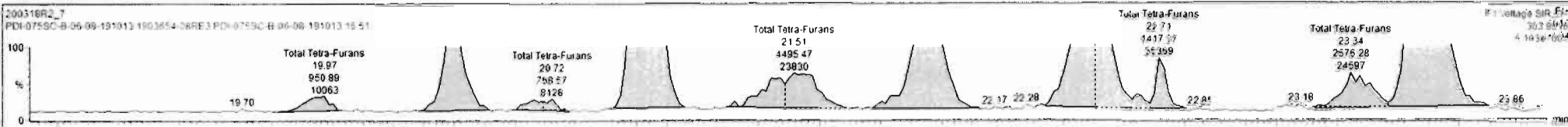
DPE1

200318R2_7



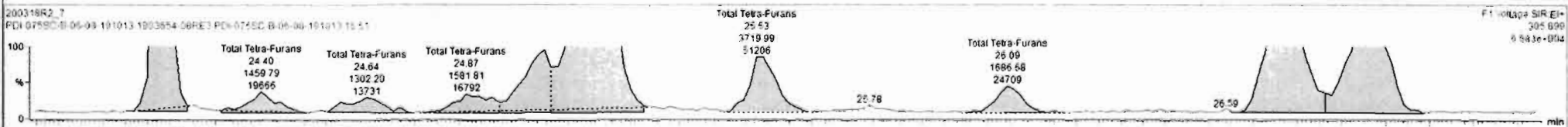
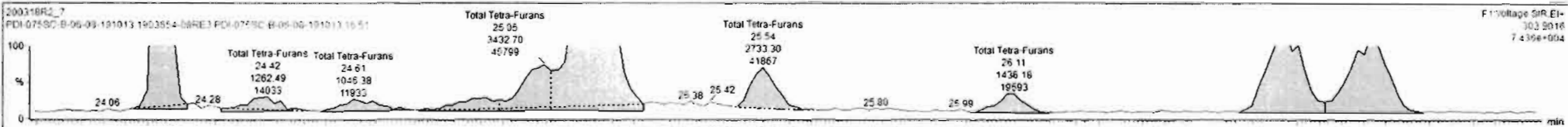
Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hecto-Dioxins				1.0061	10.212			4520	1.80	4520	
43 Total Tetra-Furans				0.9154	10.212			106	0.262	108	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.97	5.109e2	1.095e3	0.87	ND	0.53677	0.53677
2 Total Tetra-Furans	20.38	5.385e3	7.009e3	0.77	ND	3.2625	3.2625
3 Total Tetra-Furans	20.72	7.886e2	1.017e2	0.76	ND	0.47026	0.47026
4 Total Tetra-Furans	21.02	3.753e4	5.101e4	0.74	ND	23.423	23.423
5 Total Tetra-Furans	21.51	4.495e3	6.212e3	0.72	ND	2.8195	2.8195
6 Total Tetra-Furans	21.96	9.830e3	1.229e4	0.80	ND	5.8240	5.8240
7 Total Tetra-Furans	22.49	1.387e4	1.850e4	0.75	ND	6.5251	6.5251
8 Total Tetra-Furans	22.71	1.417e3	1.801e3	0.79	ND	0.84748	0.84748
9 Total Tetra-Furans	23.34	2.576e3	3.822e3	0.67	ND	1.6845	1.6845
10 Total Tetra-Furans	23.58	2.063e4	2.791e4	0.74	ND	12.761	12.761



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hexa-Chlorins				1.00E1	10.212			4930		1.60	4630
43 Total Tetra-Furans				0.8154	10.212			104		0.282	104

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
11 Total Tetra-Furans	24.18	1.983e4	2.607e4	0.78	NO	12.086	12.086
12 Total Tetra-Furans	24.42	1.262e3	1.460e3	0.88	NO	0.71685	0.71685
13 Total Tetra-Furans	24.61	1.046e3	1.302e3	0.80	NO	0.61844	0.61844
14 Total Tetra-Furans	24.91	1.343e3	1.582e3	0.85	NO	0.77014	0.77014
15 Total Tetra-Furans	25.05	2.423e3	4.036e3	0.60	NO	1.9668	1.9668
16 2,3,7,8-TCDF	25.17	2.860e4	3.421e4	0.78	NO	16.014	16.014
17 Total Tetra-Furans	25.54	2.732e3	3.720e3	0.73	NO	1.6993	1.6993
18 Total Tetra-Furans	26.11	1.436e3	1.887e3	0.85	NO	0.82233	0.82233
19 Total Tetra-Furans	26.72	7.869e3	1.084e4	0.72	NO	4.9267	4.9267
20 Total Tetra-Furans	26.92	7.623e3	1.018e4	0.75	NO	4.6891	4.6891



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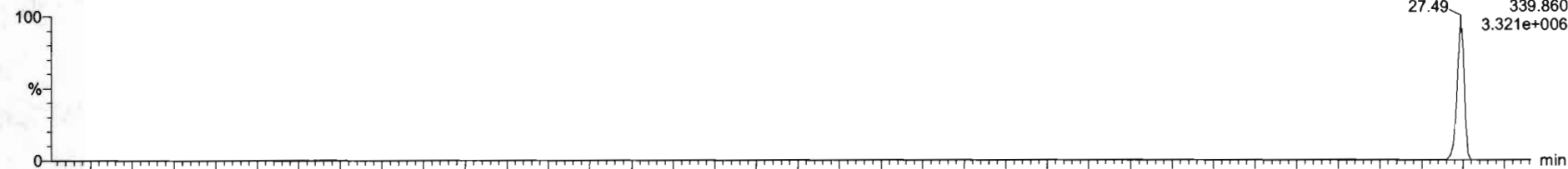
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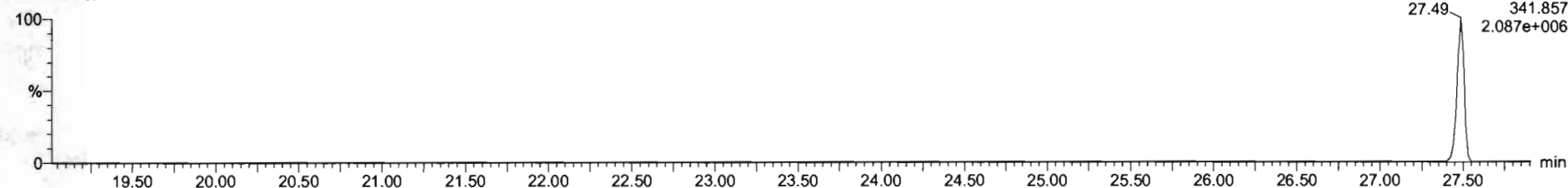
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1st Func. Penta-Furans

200318R2_7

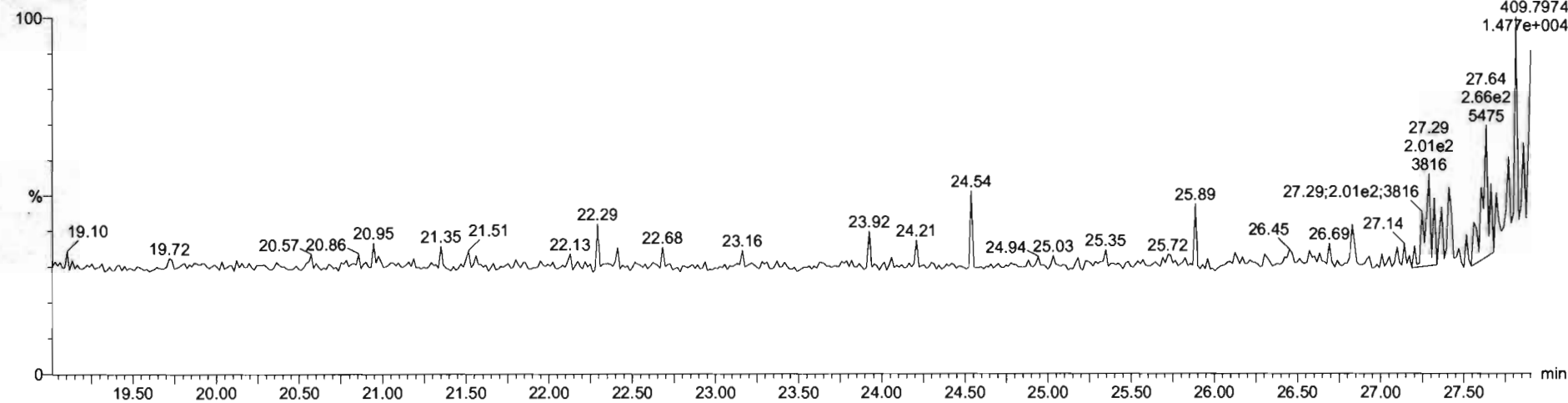


200318R2_7



DPE6

200318R2_7

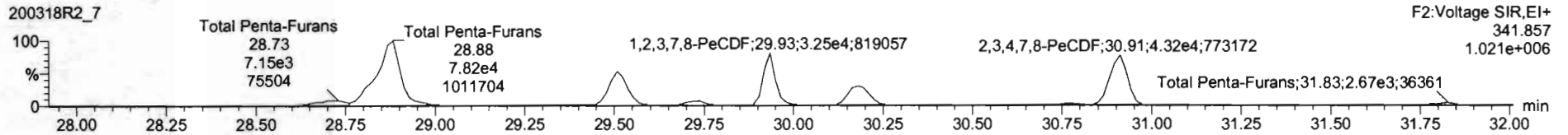
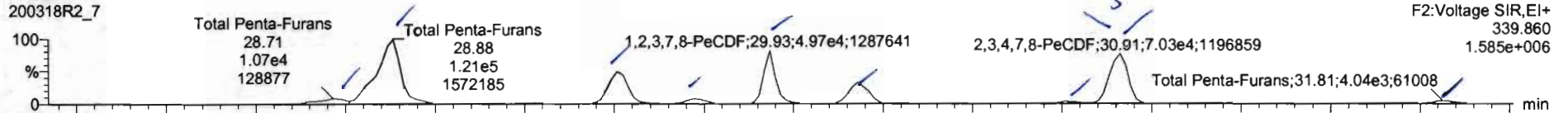


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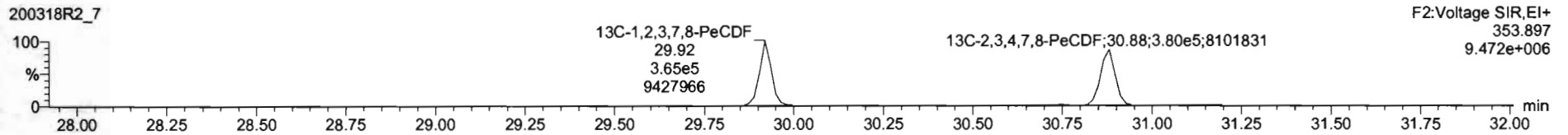
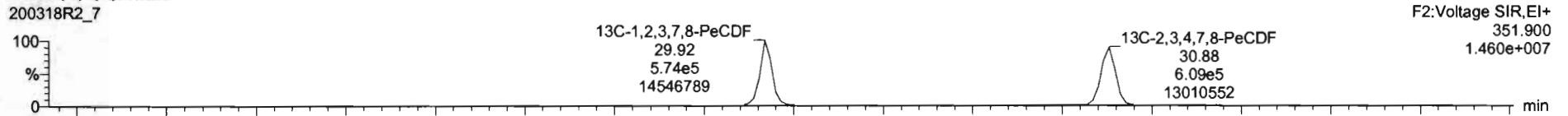
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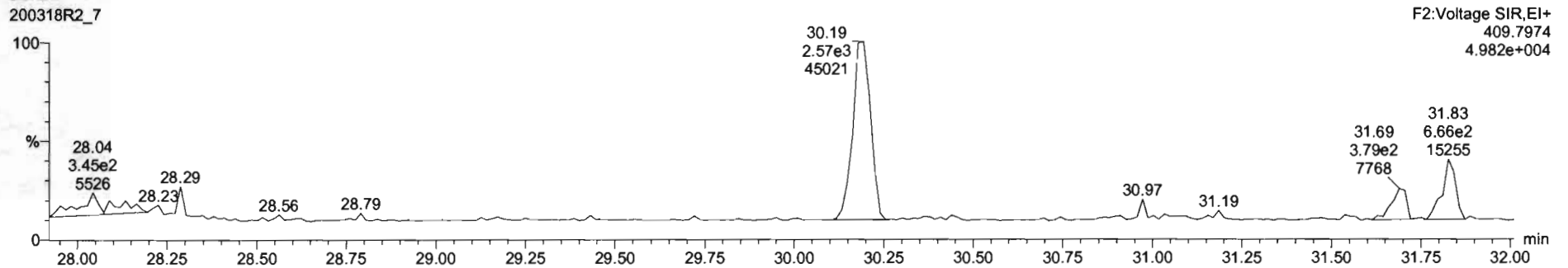
1,2,3,7,8-PeCDF

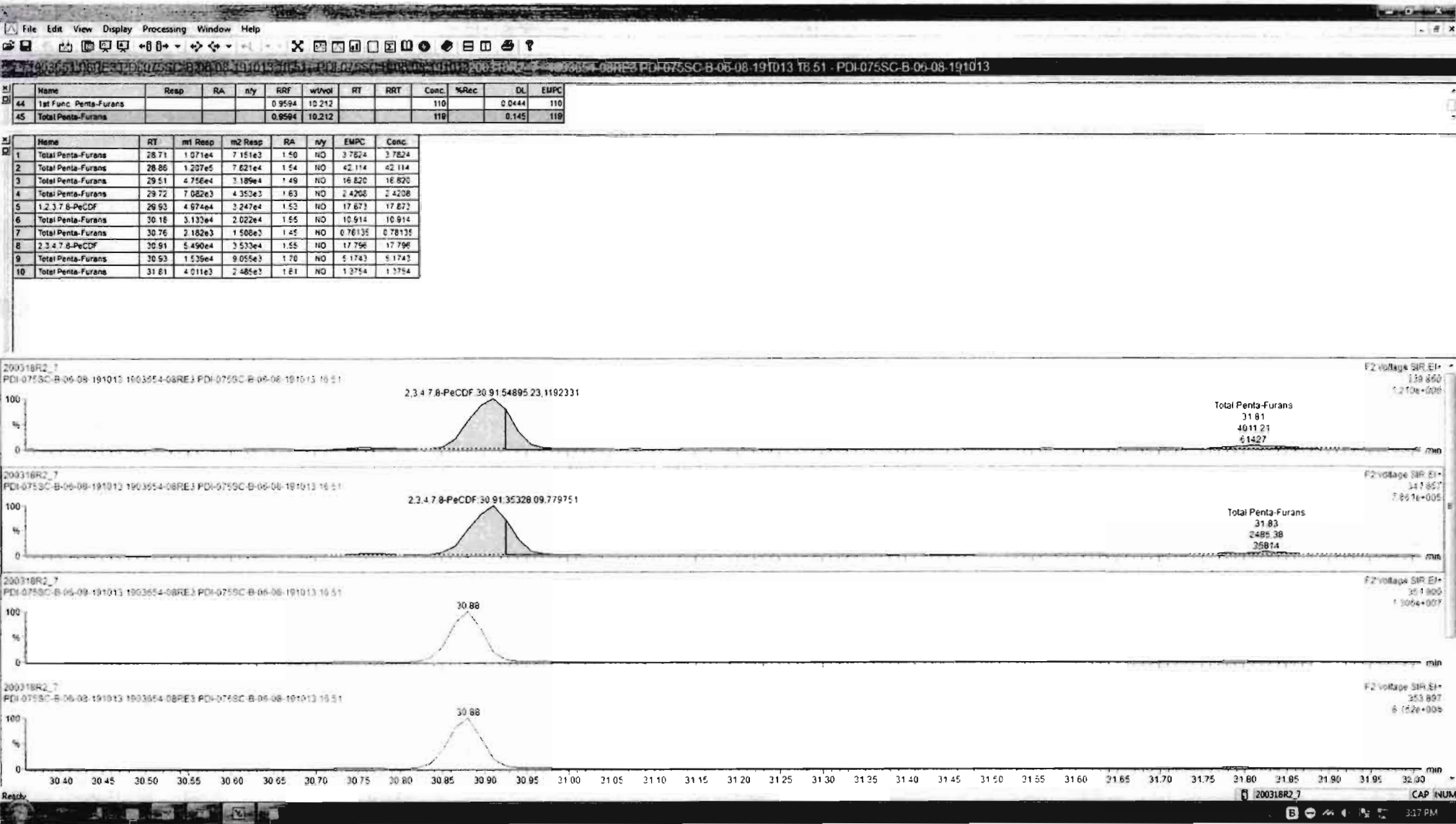


13C-1,2,3,7,8-PeCDF



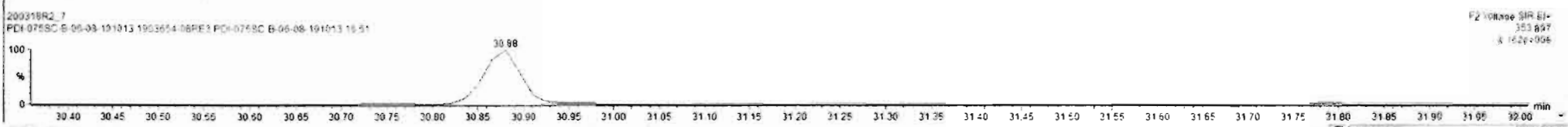
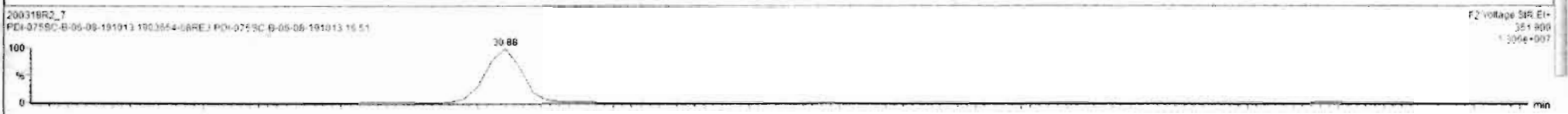
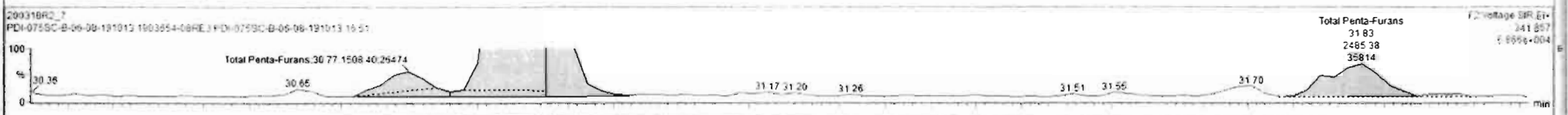
DPE2





Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.212			110		0.0444	110
45 Total Penta-Furans				0.9594	10.212			119		0.145	119

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.71	1.071e4	7.151e3	1.50	NO	3.7824	3.7824
2 Total Penta-Furans	28.86	1.207e5	7.621e4	1.54	NO	42.114	42.114
3 Total Penta-Furans	29.51	4.758e4	3.189e4	1.49	NO	16.820	16.820
4 Total Penta-Furans	29.72	7.082e3	4.353e3	1.63	NO	2.4208	2.4208
5 1,2,3,7,8-PeCDF	29.93	4.974e4	3.247e4	1.53	NO	17.873	17.873
6 Total Penta-Furans	30.18	3.133e4	2.022e4	1.55	NO	10.914	10.914
7 Total Penta-Furans	30.76	2.182e3	1.508e3	1.45	NO	0.78135	0.78135
8 2,3,4,7,8-PeCDF	30.91	5.587e4	3.533e4	1.58	NO	17.988	17.988
9 Total Penta-Furans	30.93	1.535e4	9.055e3	1.70	NO	5.1743	5.1743
10 Total Penta-Furans	31.81	4.011e3	2.485e3	1.61	NO	1.3754	1.3754

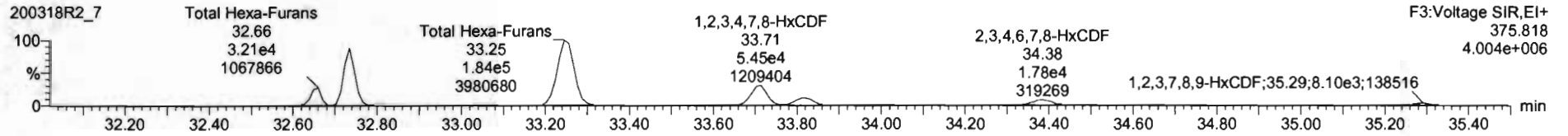
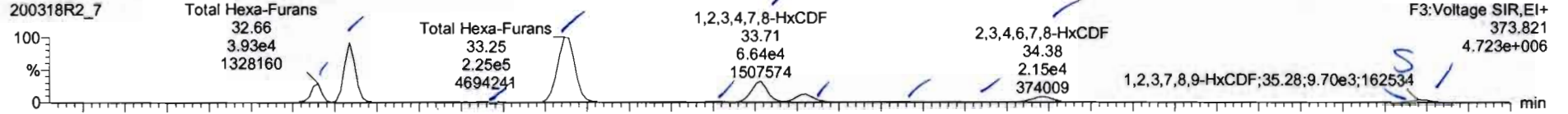


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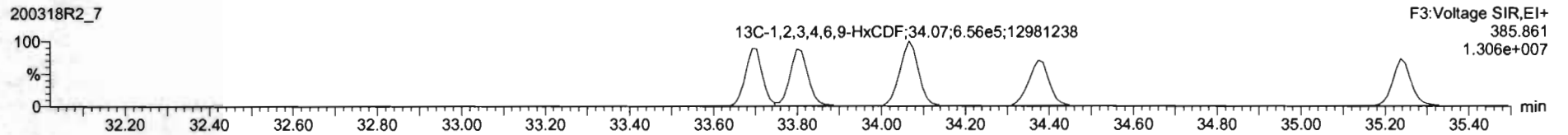
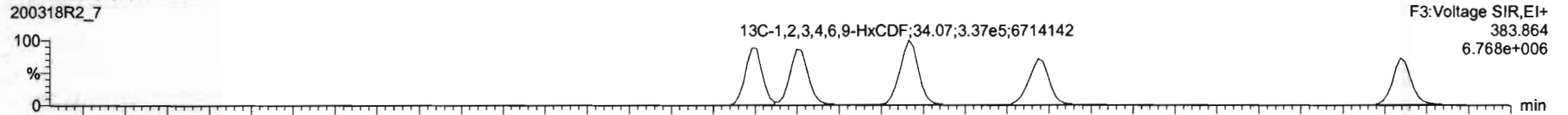
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Printed: Thursday, March 19, 2020 09:12:16 Pacific Daylight Time

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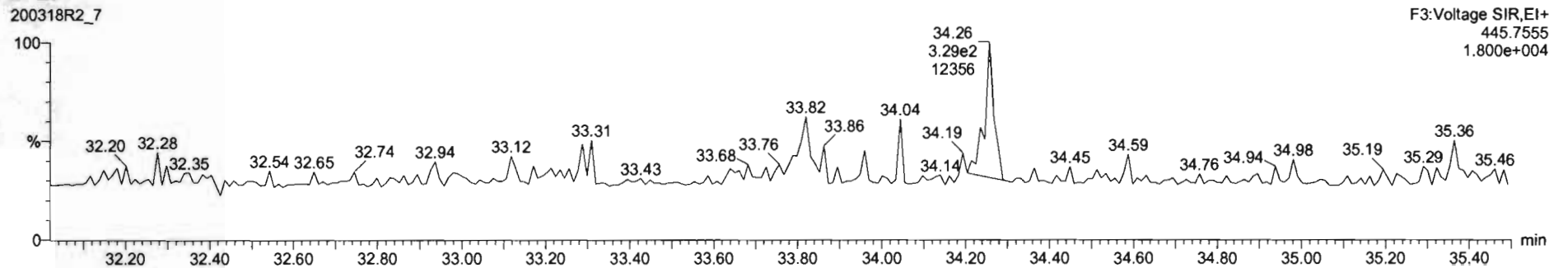
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

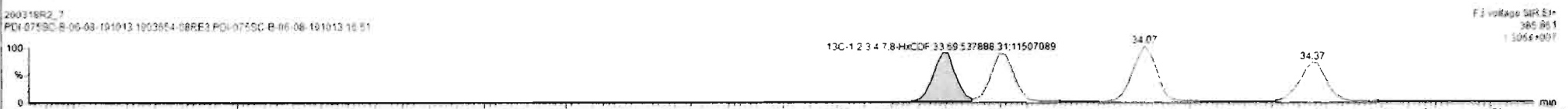
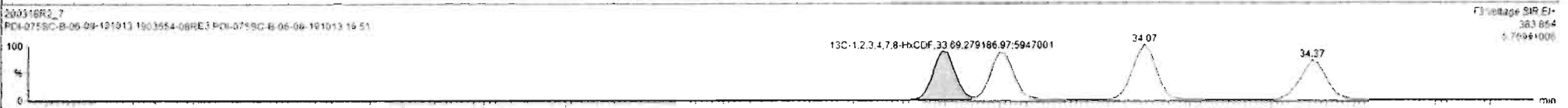
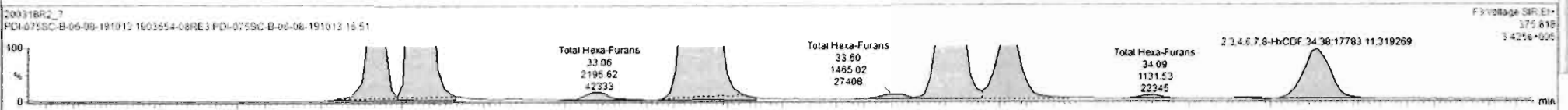
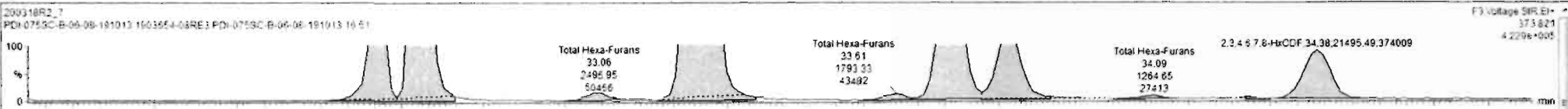


DPE3



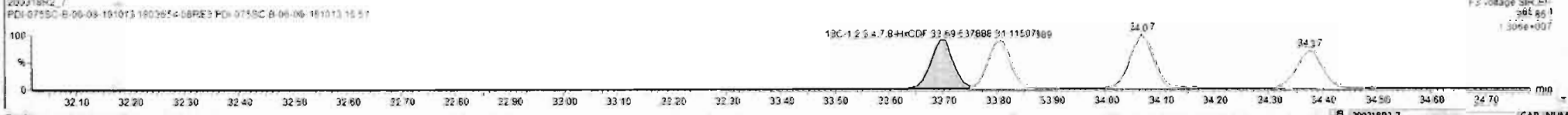
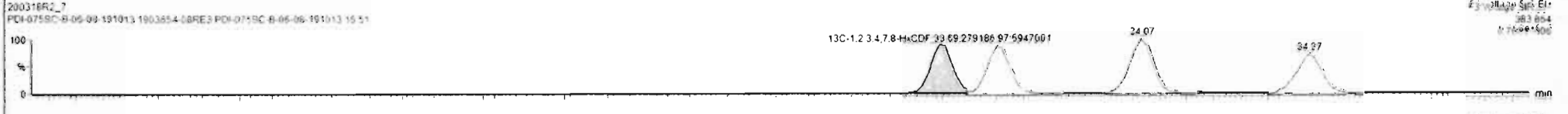
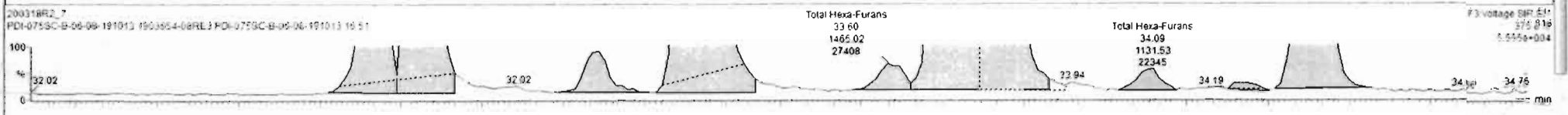
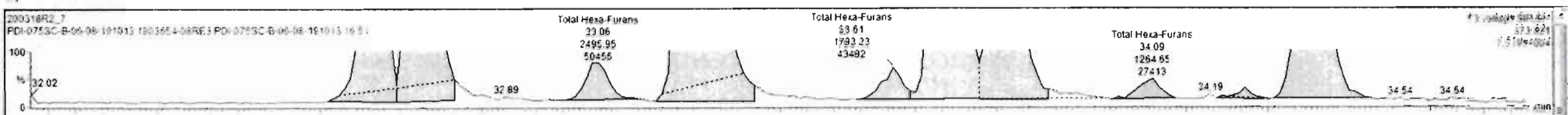
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.212			110		0.0444	110
45 Total Penta-Furans				0.9594	10.212			119		0.145	119

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.66	4.076e4	3.322e4	1.23	NO	16.719	16.719
2 Total Hexa-Furans	32.73	1.358e5	1.103e5	1.23	NO	55.630	55.630
3 Total Hexa-Furans	33.06	2.496e3	2.195e3	1.14	NO	1.9604	1.9604
4 Total Hexa-Furans	33.25	2.289e5	1.877e5	1.22	NO	94.162	94.162
5 Total Hexa-Furans	33.51	1.793e3	1.465e3	1.22	NO	0.73644	0.73644
6 1,2,3,4,7,8-HxCDF	33.71	6.637e4	5.453e4	1.22	NO	27.916	27.916
7 1,2,3,6,7,8-HxCDF	33.82	2.853e4	2.321e4	1.23	NO	11.716	11.716
8 Total Hexa-Furans	34.09	1.285e3	1.132e3	1.12	NO	0.54157	0.54157
9 Total Hexa-Furans	34.26	4.791e2	3.702e2	1.29	NO	0.19195	0.19195
10 2,2,4,6,7,8-HxCDF	34.38	2.150e4	1.778e4	1.21	NO	9.0365	9.0365
11 1,2,3,7,8,9-HxCDF	35.28	9.556e3	8.097e3	1.20	NO	4.6972	4.6972



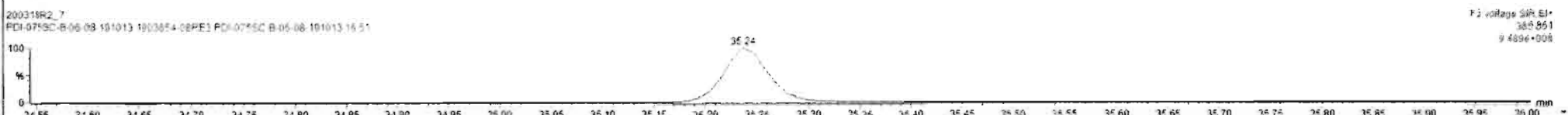
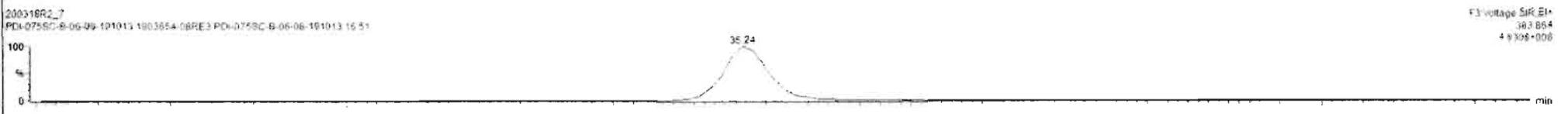
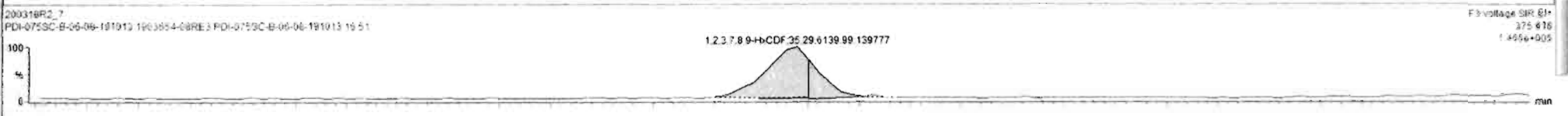
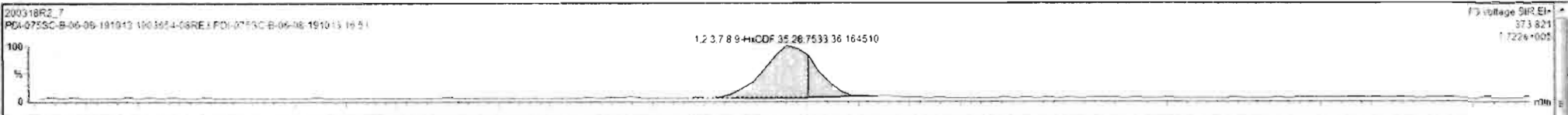
Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func Penta-Furans				0.9594	10.212			110		0.0444	110
45 Total Penta-Furans				0.9594	10.212			119		0.145	119

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.66	4.076e4	3.322e4	1.23	N/D	16.719	16.719
2 Total Hexa-Furans	32.73	1.358e5	1.103e5	1.23	N/D	55.630	55.630
3 Total Hexa-Furans	32.06	2.496e3	2.195e3	1.14	N/D	1.0604	1.0604
4 Total Hexa-Furans	32.25	2.289e5	1.877e5	1.22	N/D	34.162	34.162
5 Total Hexa-Furans	33.51	1.793e3	1.465e3	1.22	N/D	0.73644	0.73644
6 1,2,3,4,7,8-HxCDF	33.71	6.637e4	5.453e4	1.22	N/D	27.916	27.916
7 1,2,3,6,7,8-HxCDF	32.62	2.853e4	2.325e4	1.22	N/D	11.716	11.716
8 Total Hexa-Furans	34.09	1.285e3	1.132e3	1.12	N/D	0.54157	0.54157
9 Total Hexa-Furans	34.26	4.791e2	3.702e2	1.29	N/D	0.19195	0.19195
10 2,3,4,6,7,8-HxCDF	34.38	2.150e4	1.778e4	1.21	N/D	9.0365	9.0365
11 1,2,3,7,8,9-HxCDF	35.28	9.696e3	8.097e3	1.20	N/D	4.6972	4.6972



Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1st Func Penta-Furans				0.9594	10.212			110		0.0444	110
Total Penta-Furans				0.9594	10.212			119		0.145	119

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
Total Hexa-Furans	32.66	4.076e4	3.322e4	1.23	ND	16.719	16.719
Total Hexa-Furans	32.73	1.358e5	1.103e5	1.23	ND	55.630	55.630
Total Hexa-Furans	32.06	2.496e2	2.196e2	1.14	ND	1.0604	1.0604
Total Hexa-Furans	32.25	2.289e5	1.877e5	1.22	ND	94.162	94.162
Total Hexa-Furans	33.51	1.792e3	1.465e3	1.22	ND	0.73244	0.73244
1,2,3,4,7,8-HxCDF	32.71	6.637e4	5.463e4	1.22	ND	27.916	27.916
1,2,3,6,7,8-HxCDF	32.82	2.653e4	2.325e4	1.23	ND	11.716	11.716
Total Hexa-Furans	34.09	1.265e3	1.132e3	1.12	ND	0.54157	0.54157
Total Hexa-Furans	34.26	4.791e2	2.702e2	1.29	ND	0.19195	0.19195
2,3,4,6,7,8-HxCDF	34.38	2.150e4	1.778e4	1.21	ND	9.0265	9.0265
1,2,3,7,8,9-HxCDF	35.28	7.533e3	6.140e3	1.23	ND	3.6092	3.6092
Total Hexa-Furans	36.36	2.232e3	1.919e3	1.16	ND	0.93616	0.93616



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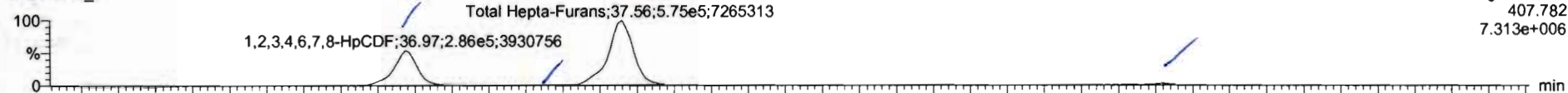
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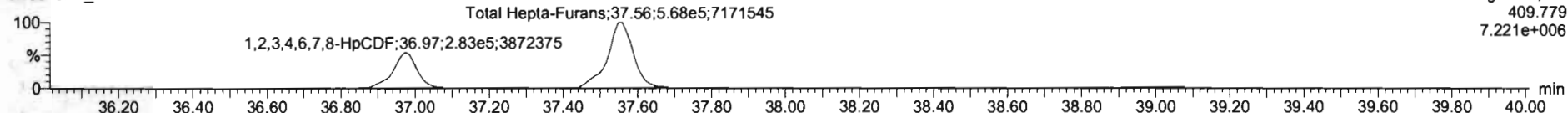
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1,2,3,4,6,7,8-HpCDF

200318R2_7

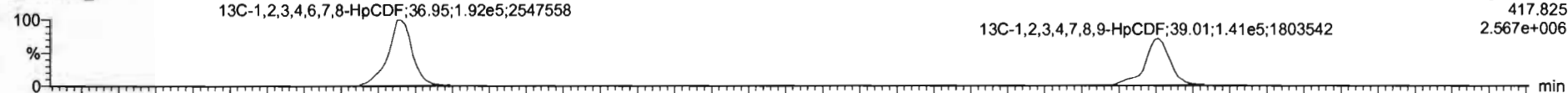


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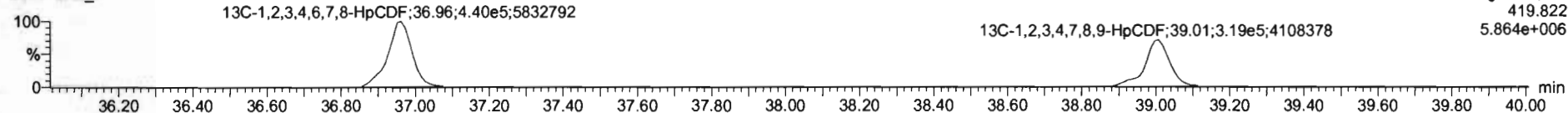


13C-1,2,3,4,6,7,8-HpCDF

200318R2_7

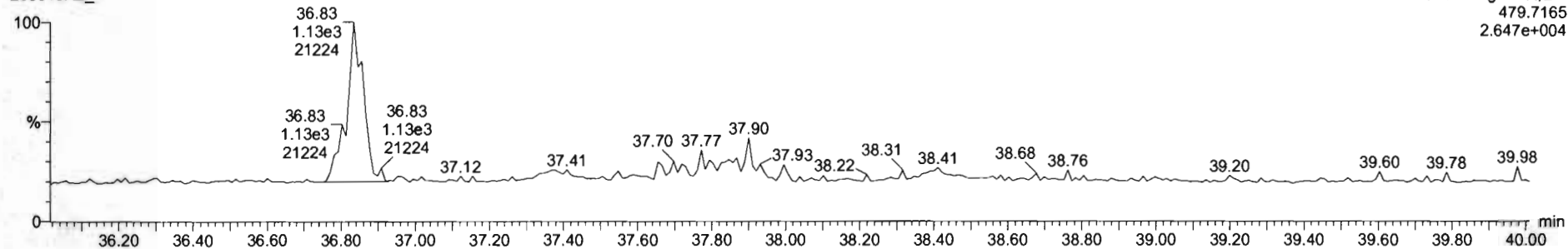


200318R2_7



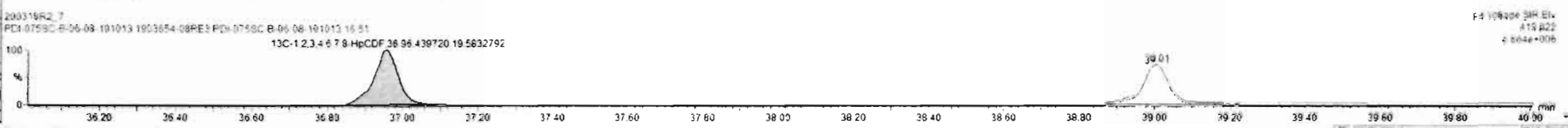
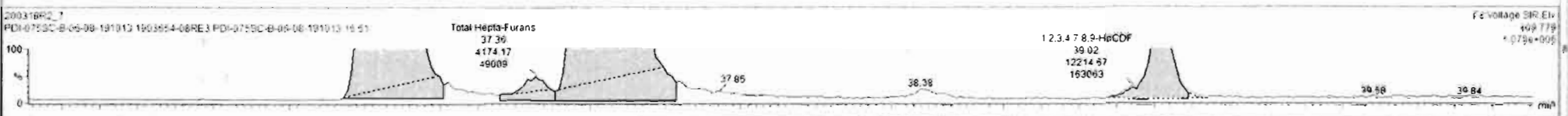
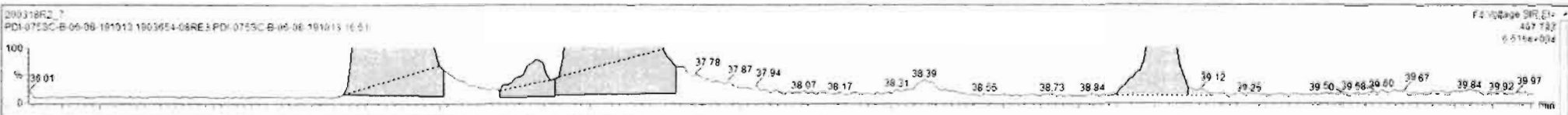
DPE4

200318R2_7



Name	Resp	RA	nly	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0483	10.212			583		0.419	583
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.97	2.911e5	2.890e5	1.01	NO	171.61	171.61
2 Total Hepta-Furans	37.36	4.082e3	4.174e3	0.97	NO	2.8204	2.8204
3 Total Hepta-Furans	37.56	5.889e5	5.820e5	1.01	NO	400.29	400.29
4 1,2,3,4,7,8,9-HpCDF	39.02	1.233e4	1.221e4	1.01	NO	8.6432	8.6433



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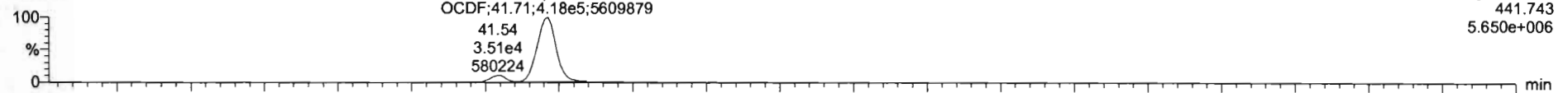
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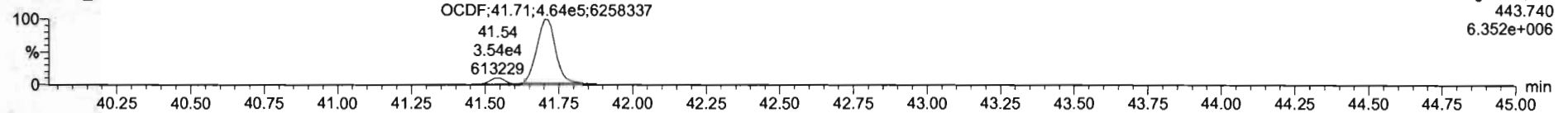
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OCDF

200318R2_7

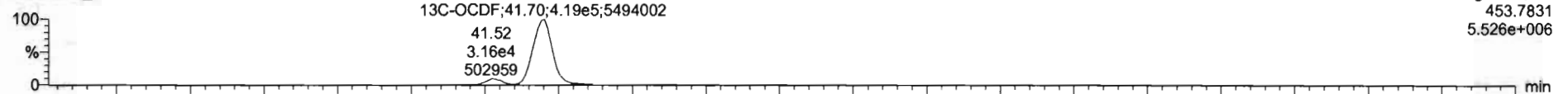


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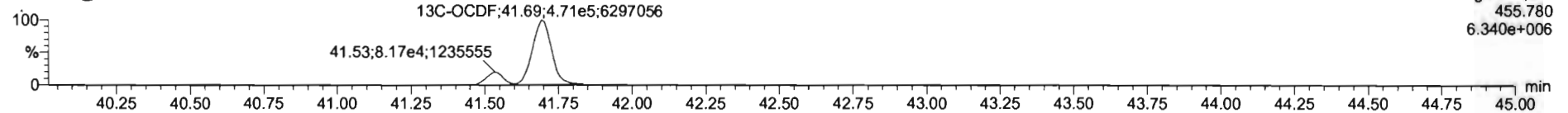


13C-OCDF

200318R2_7

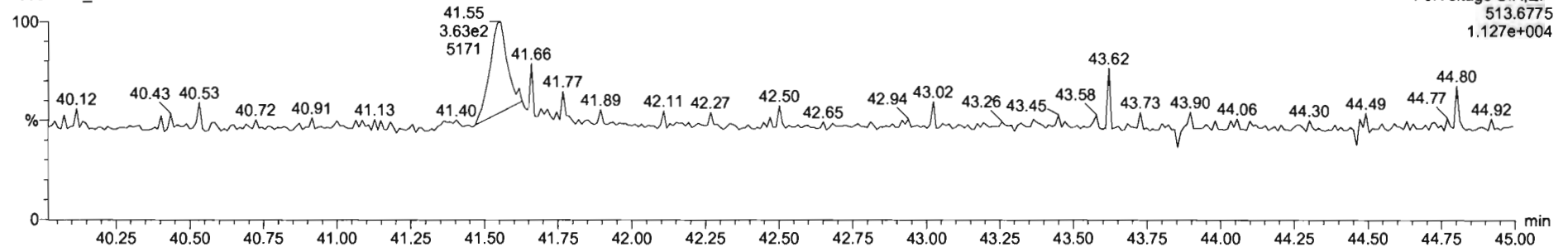


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DPE5

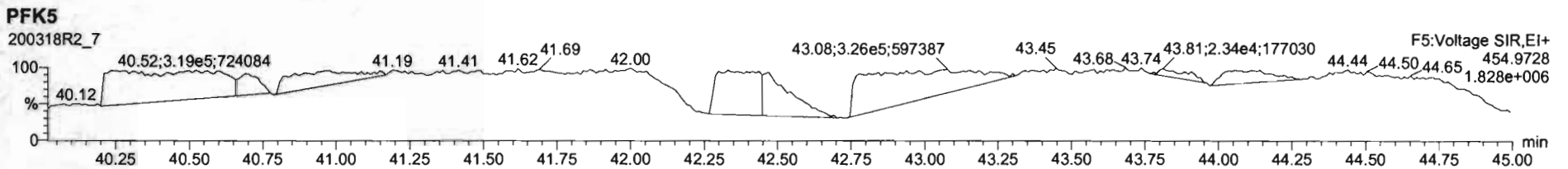
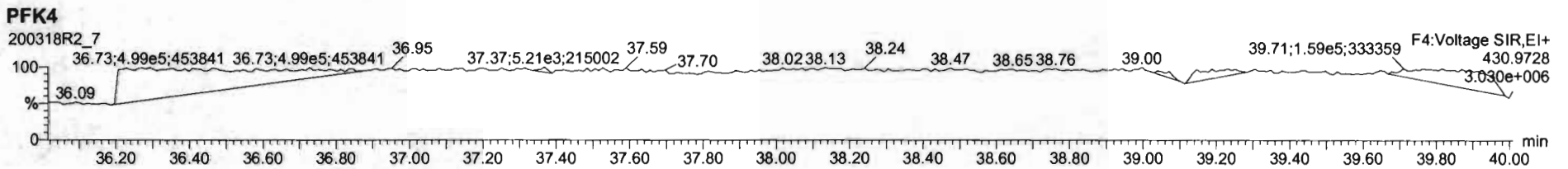
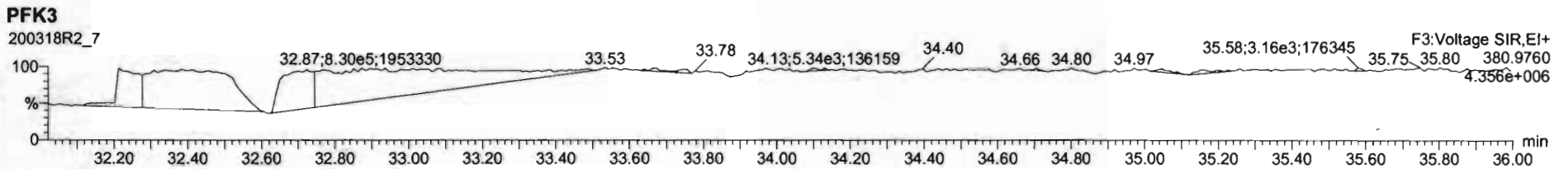
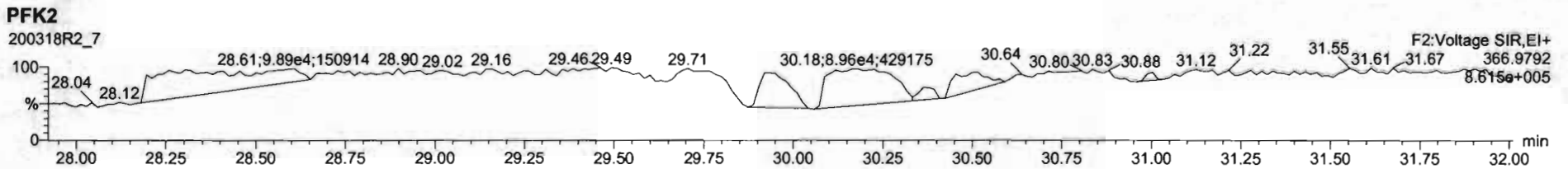
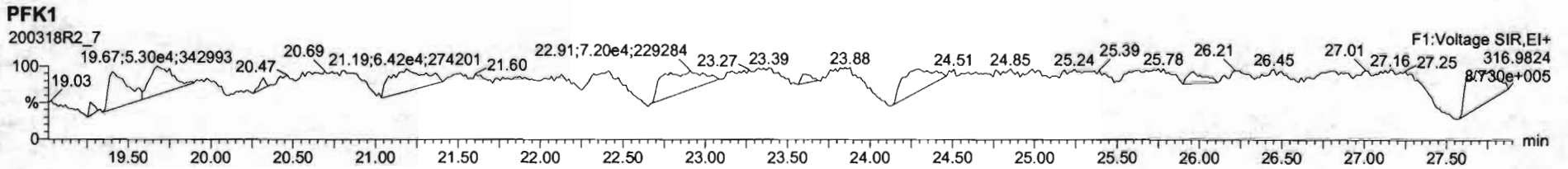
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GRB 03/20/2020

07 03/23/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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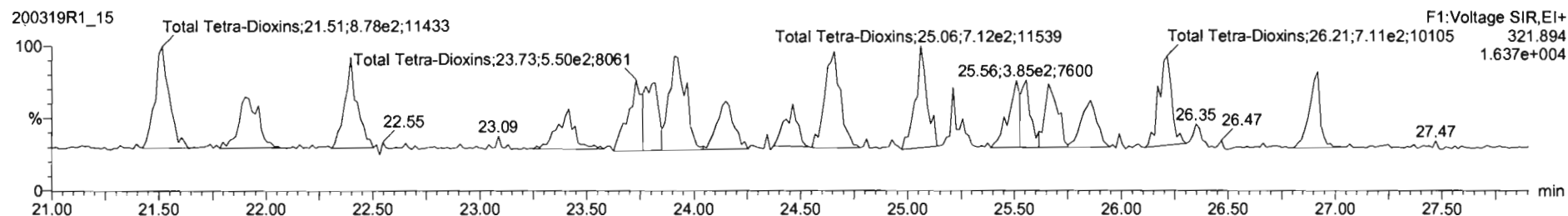
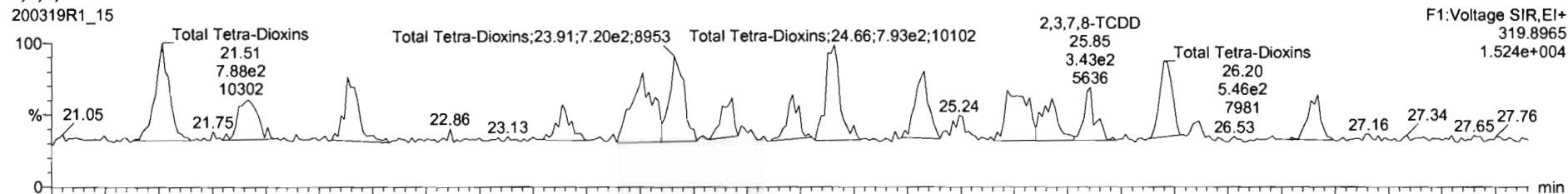
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1	7 OCDD	1.54e6	0.89	NO	1.05	10.212	41.371	41.38	1.000	1.000	12985		6.10	13000
2	24 13C-OCDD	4.42e4	0.91	NO	0.571	10.212	41.458	41.37	1.219	1.217	169.11	43.2	1.02	
3	35 37Cl-2,3,7,8-TCDD	2.59e4			1.17	10.212	25.806	25.84	1.029	1.030	48.057	61.3	0.304	
4	36 13C-1,2,3,4-TCDD	8.99e4	0.79	NO	1.00	10.212	25.050	25.08	1.000	1.000	195.84	100	1.29	
5	37 13C-1,2,3,4-TCDF	1.54e5	0.79	NO	1.00	10.212	23.190	23.16	1.000	1.000	195.84	100	2.72	
6	38 13C-1,2,3,4,6,9-HxCDF	8.97e4	0.54	NO	1.00	10.212	33.880	34.00	1.000	1.000	195.84	100	1.18	

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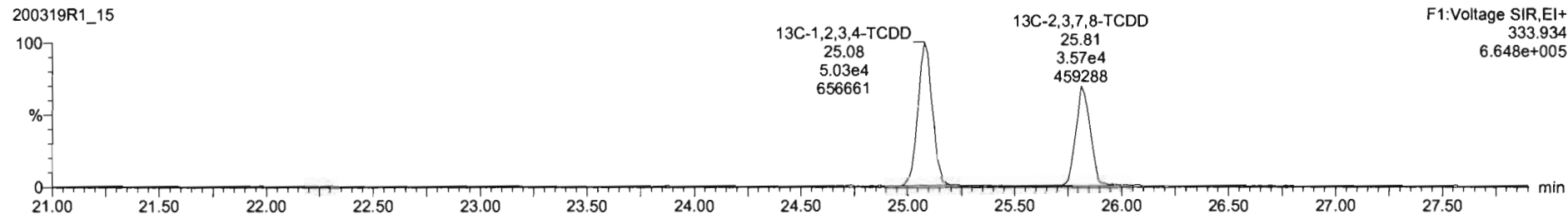
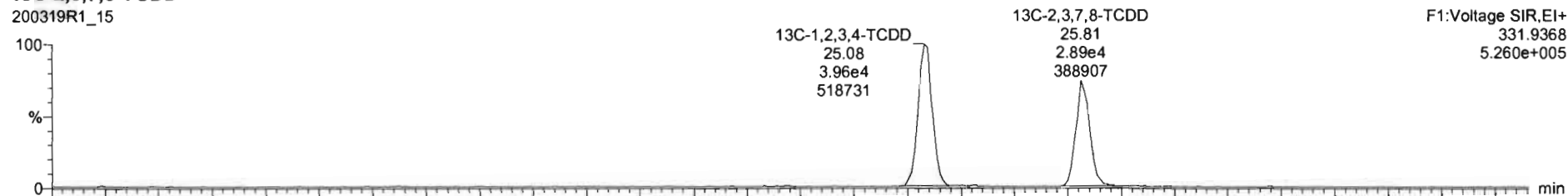
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD



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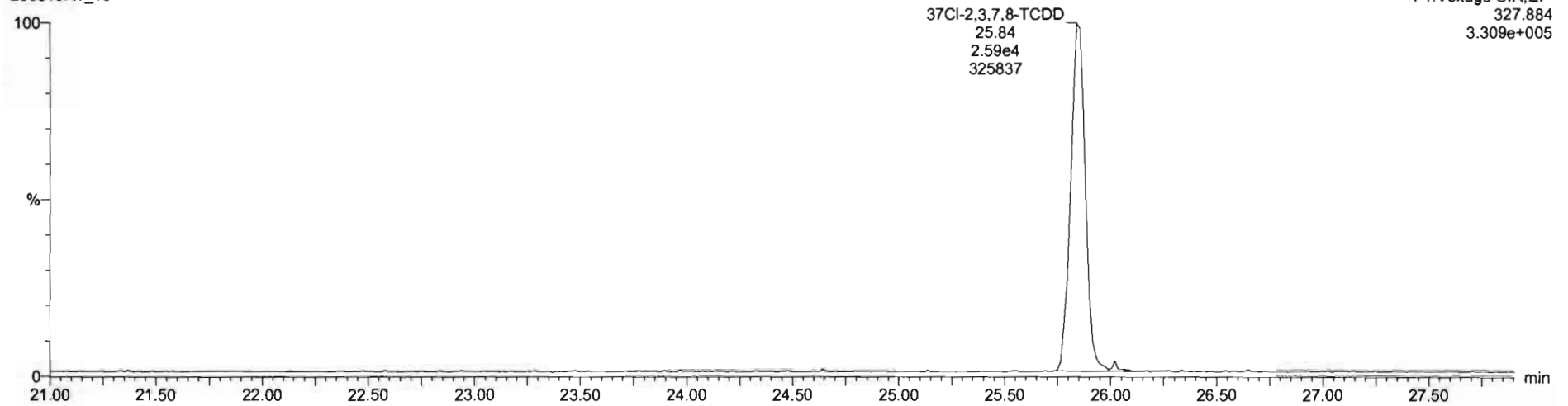
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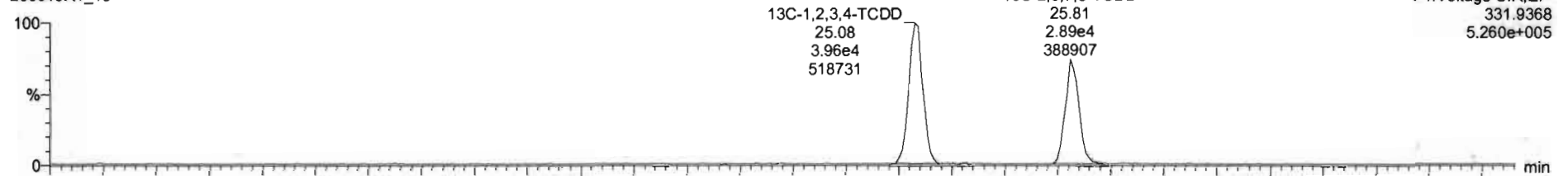
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200319R1_15

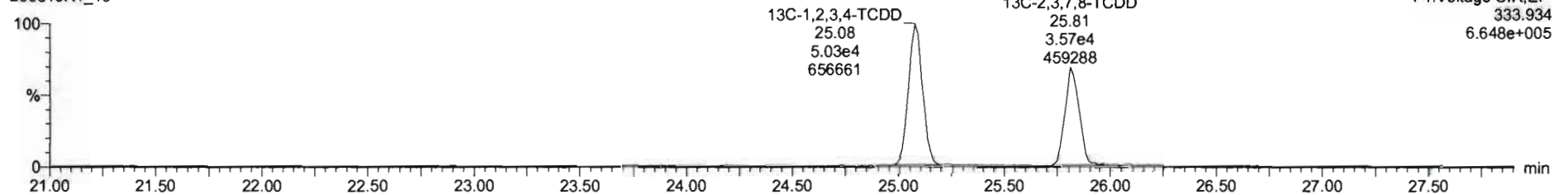


13C-1,2,3,4-TCDD

200319R1_15



200319R1_15



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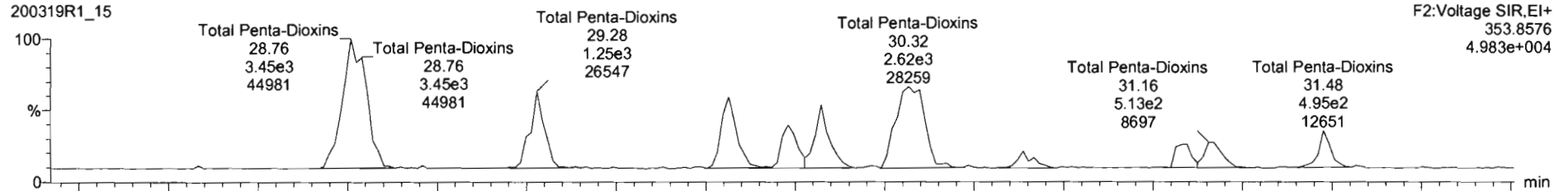
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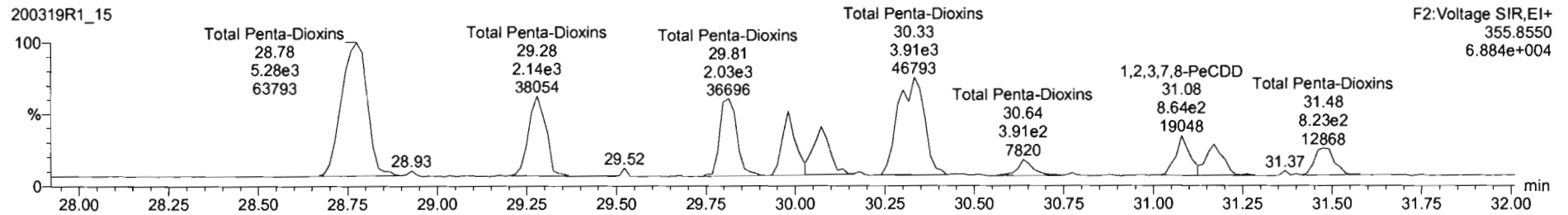
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1,2,3,7,8-PeCDD

200319R1_15



200319R1_15

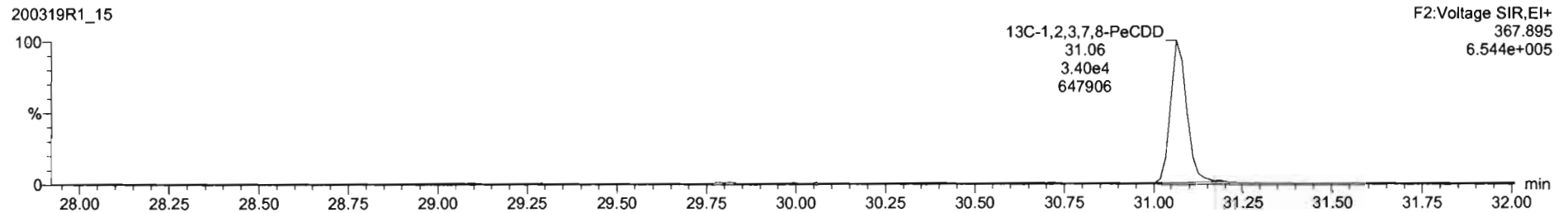


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200319R1_15



200319R1_15



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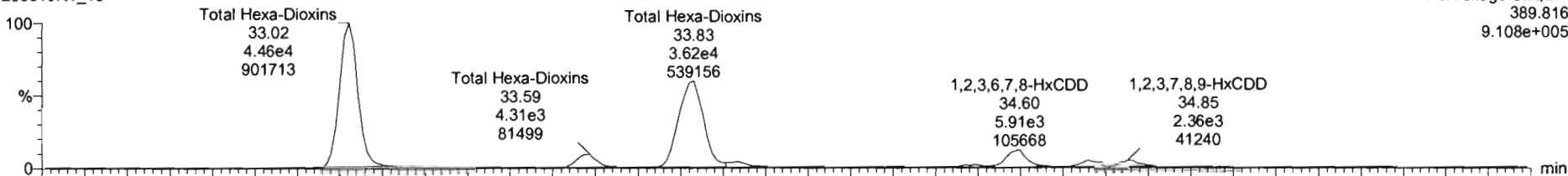
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1,2,3,4,7,8-HxCDD

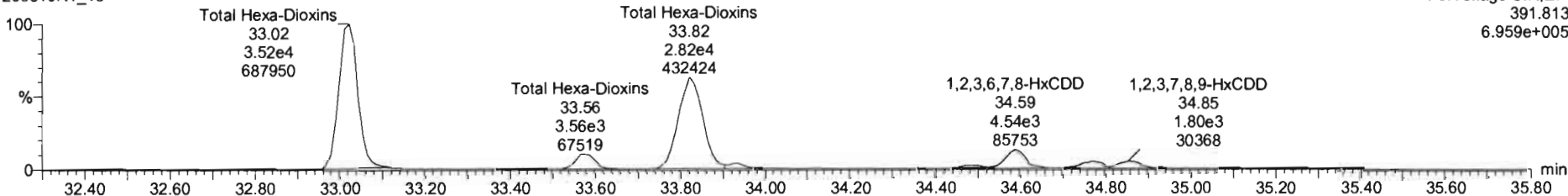
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F3:Voltage SIR,EI+
389.816
9.108e+005



200319R1_15

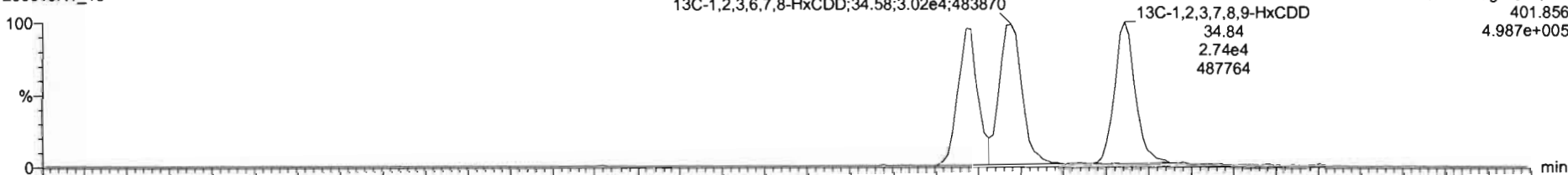
F3:Voltage SIR,EI+
391.813
6.959e+005



13C-1,2,3,4,7,8-HxCDD

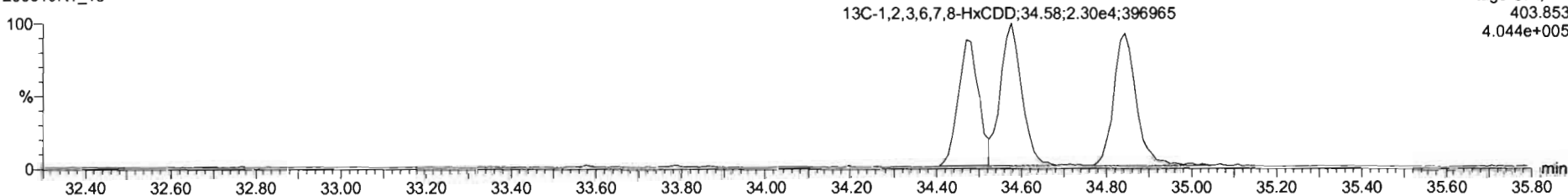
200319R1_15

F3:Voltage SIR,EI+
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200319R1_15

F3:Voltage SIR,EI+
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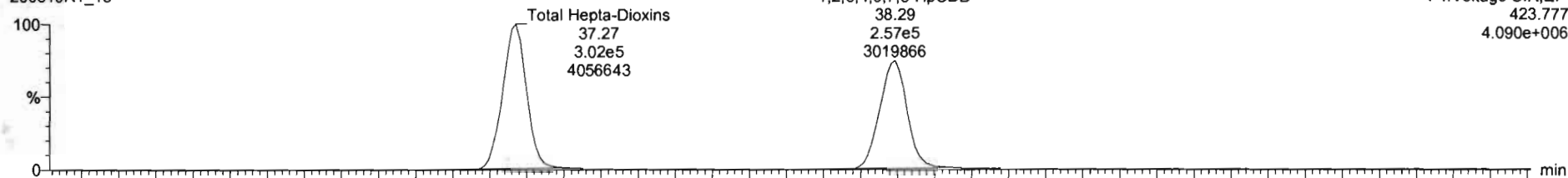
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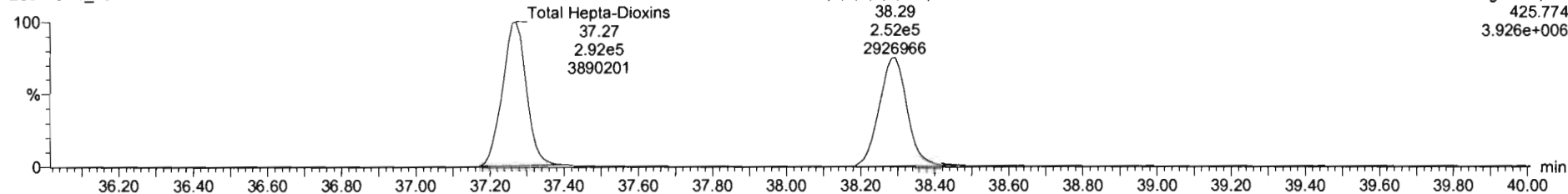
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1,2,3,4,6,7,8-HpCDD

200319R1_15

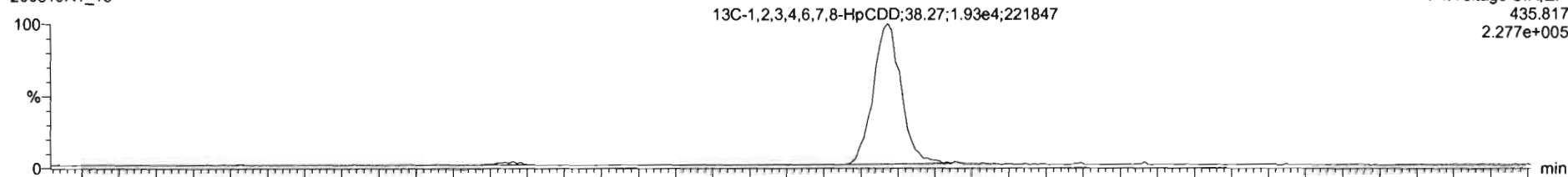


200319R1_15

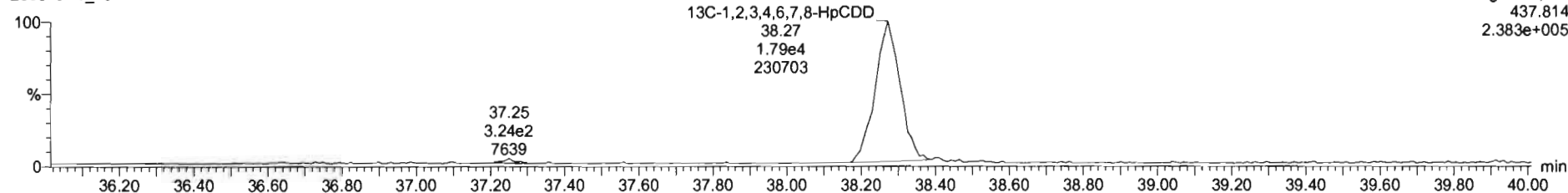


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200319R1_15



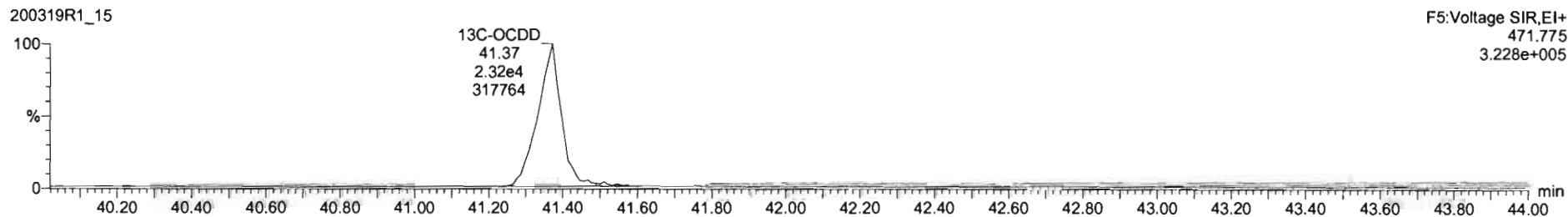
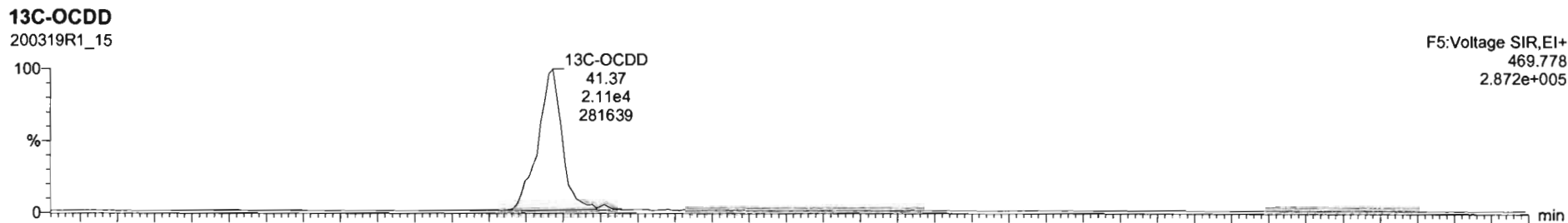
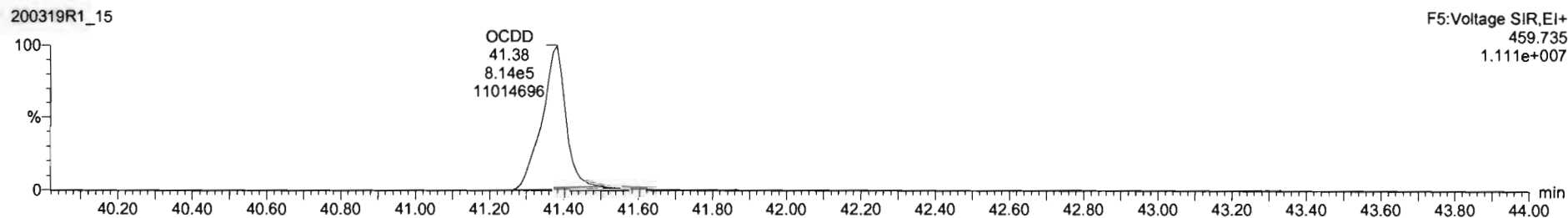
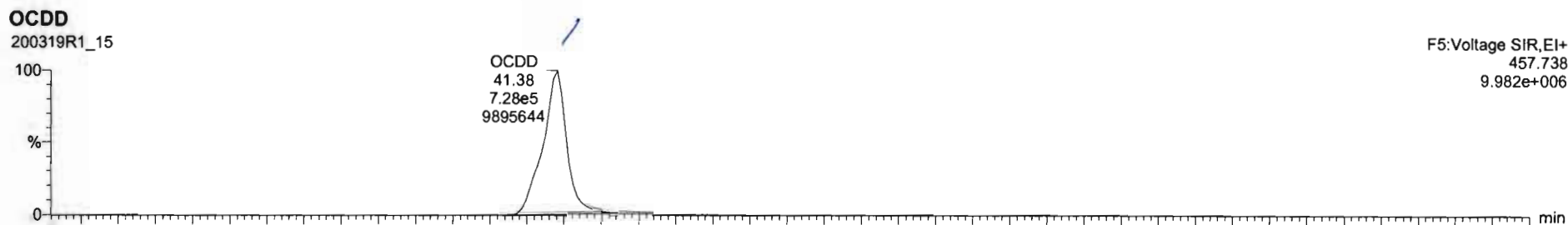
200319R1_15



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_15, Date: 20-Mar-2020, Time: 03:27:05, ID: 1903654-08RE3@5X PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013



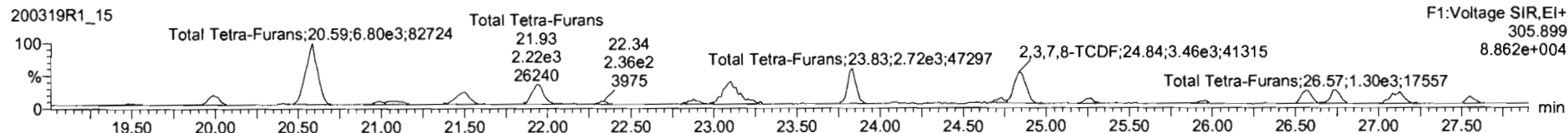
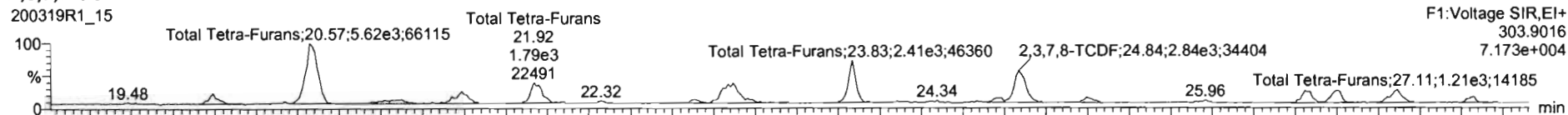
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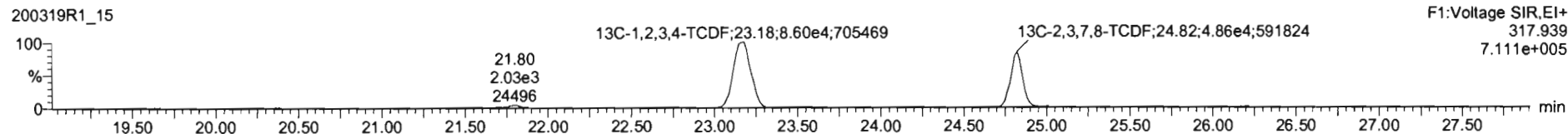
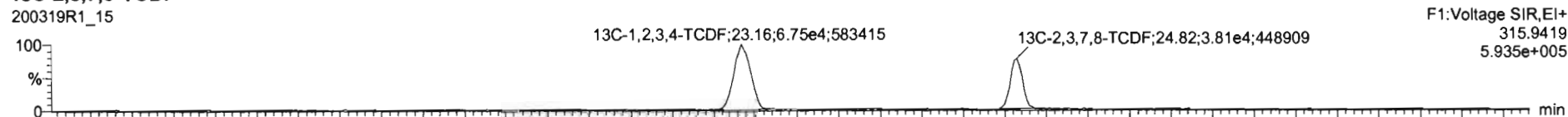
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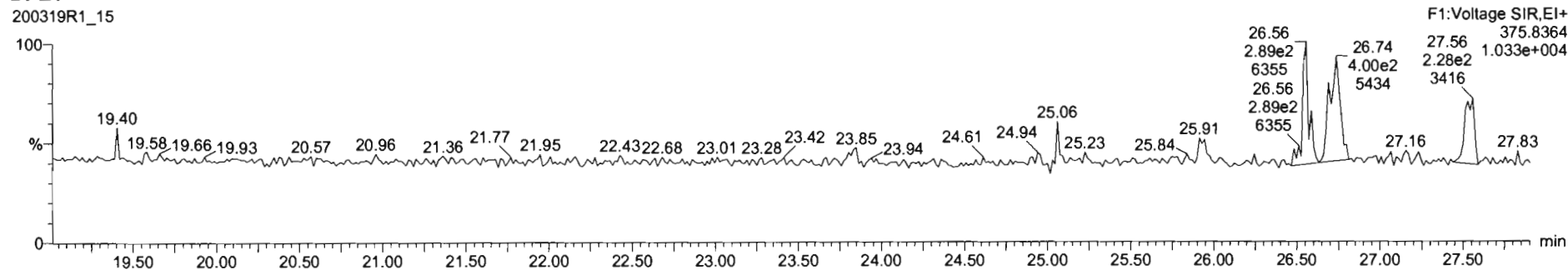
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



Dataset: Untitled

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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

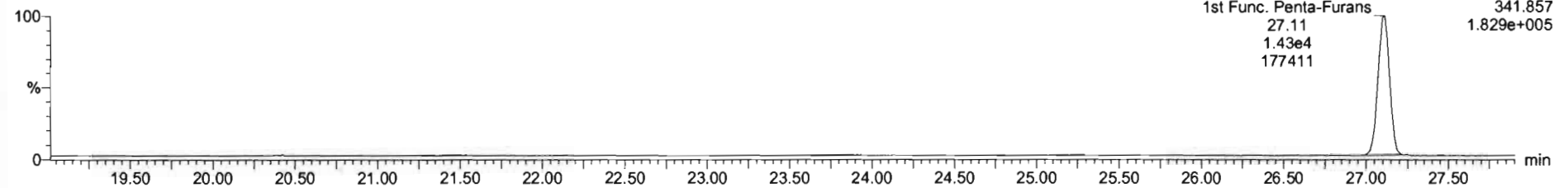
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1st Func. Penta-Furans

200319R1_15

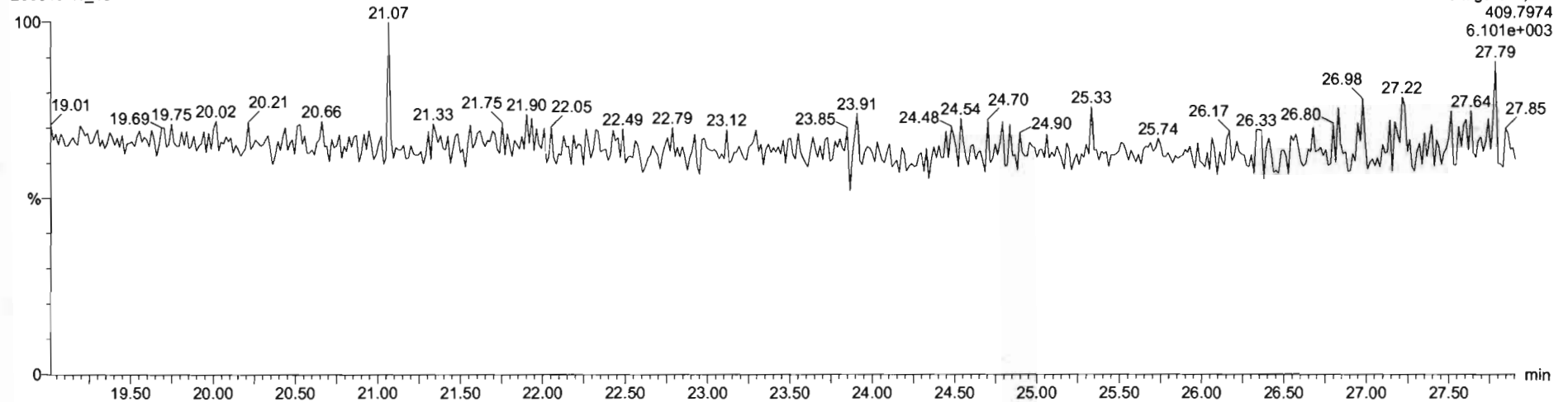


200319R1_15



DPE6

200319R1_15



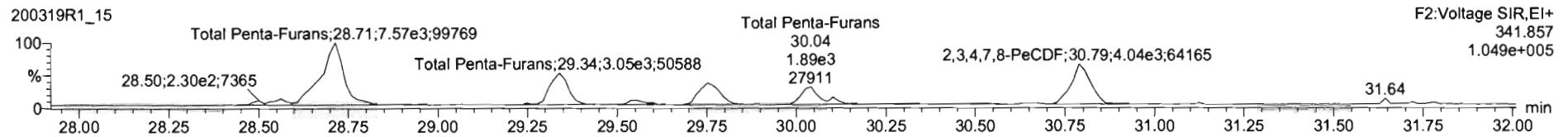
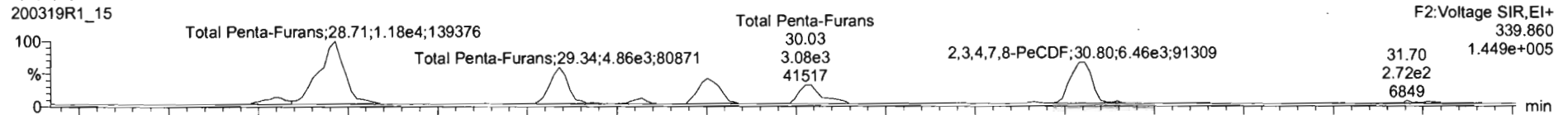
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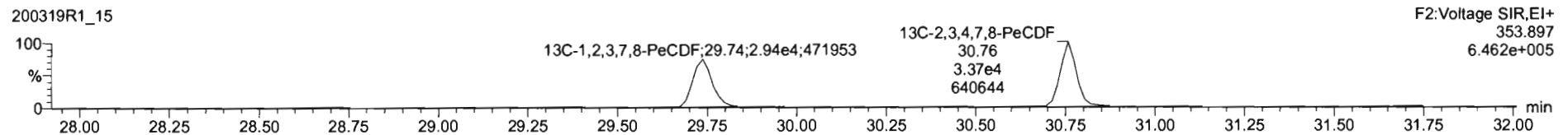
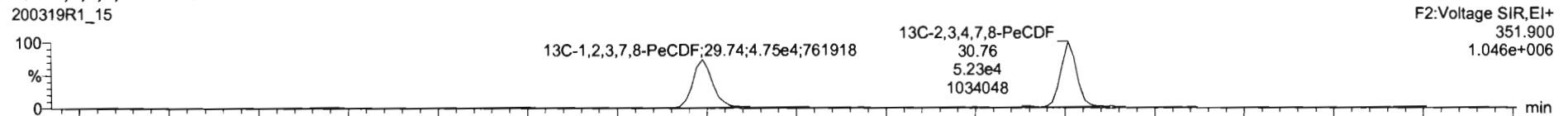
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Name: 200319R1_15, Date: 20-Mar-2020, Time: 03:27:05, ID: 1903654-08RE3@5X PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

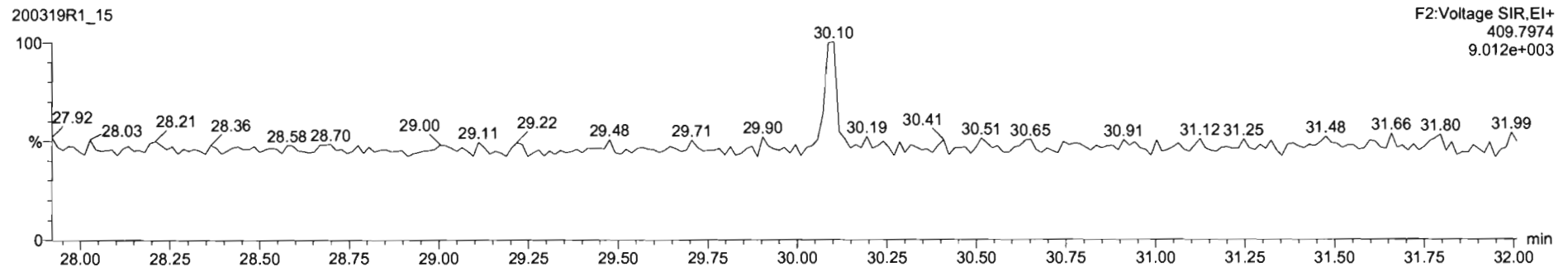
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



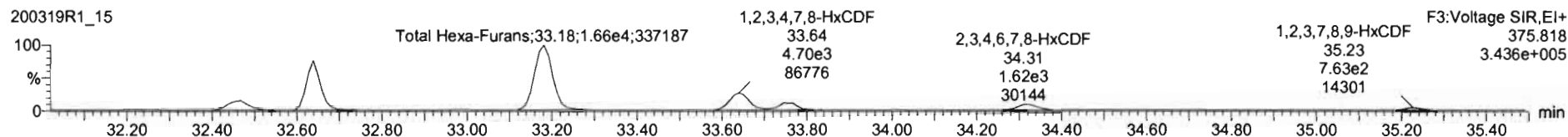
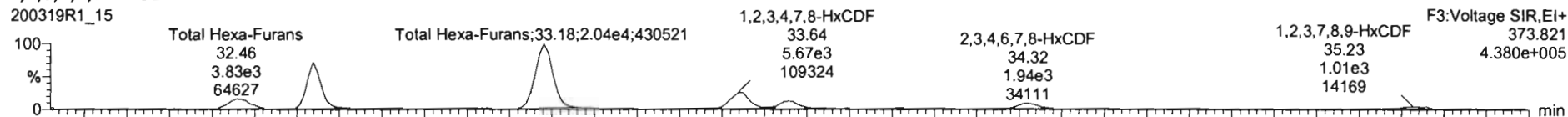
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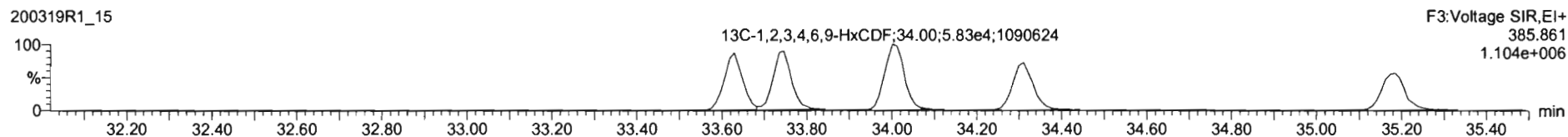
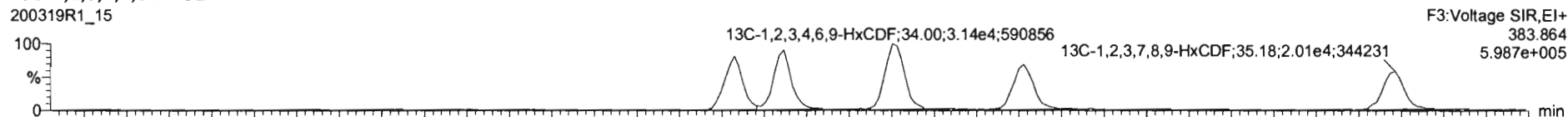
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Name: 200319R1_15, Date: 20-Mar-2020, Time: 03:27:05, ID: 1903654-08RE3@5X PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

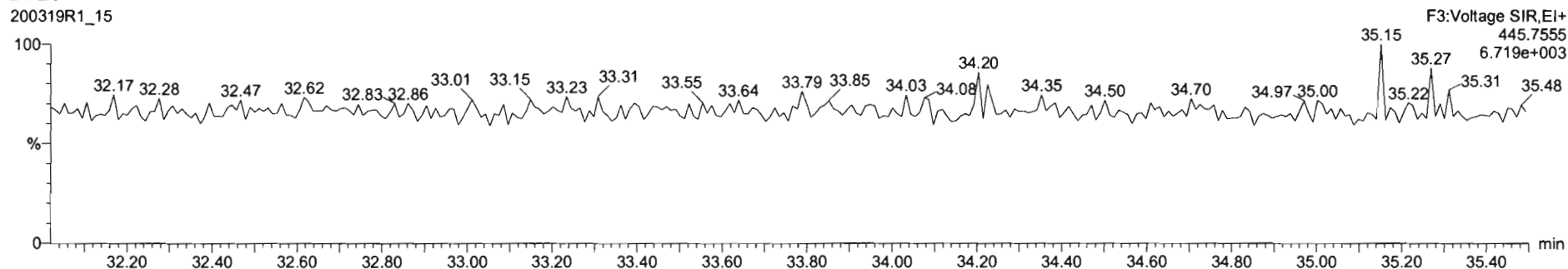
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



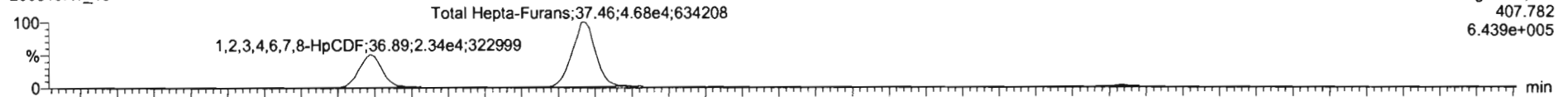
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

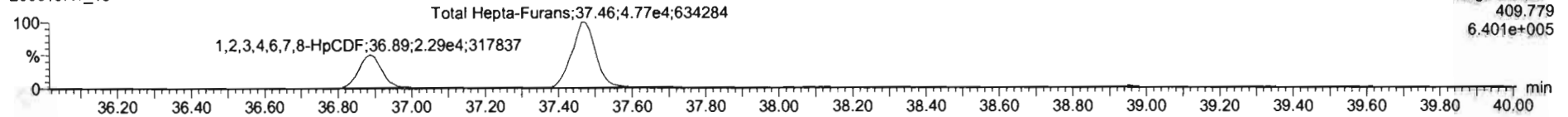
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1,2,3,4,6,7,8-HpCDF

200319R1_15



200319R1_15

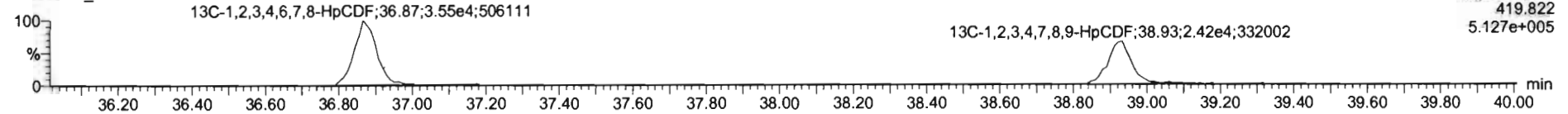


13C-1,2,3,4,6,7,8-HpCDF

200319R1_15

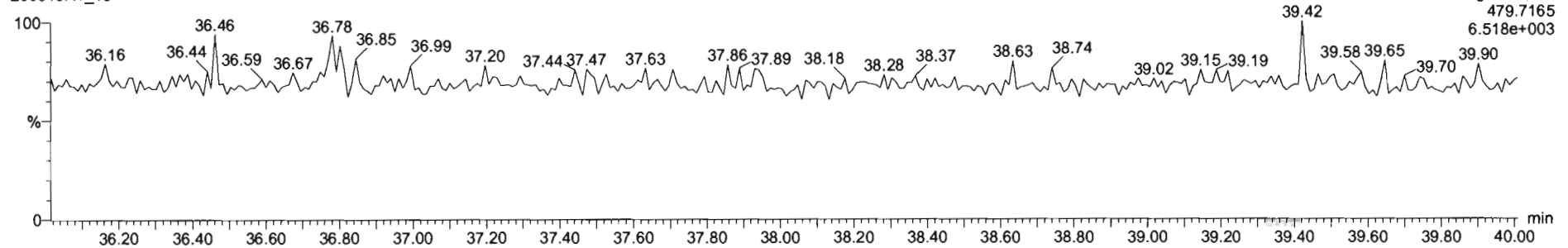


200319R1_15



DPE4

200319R1_15

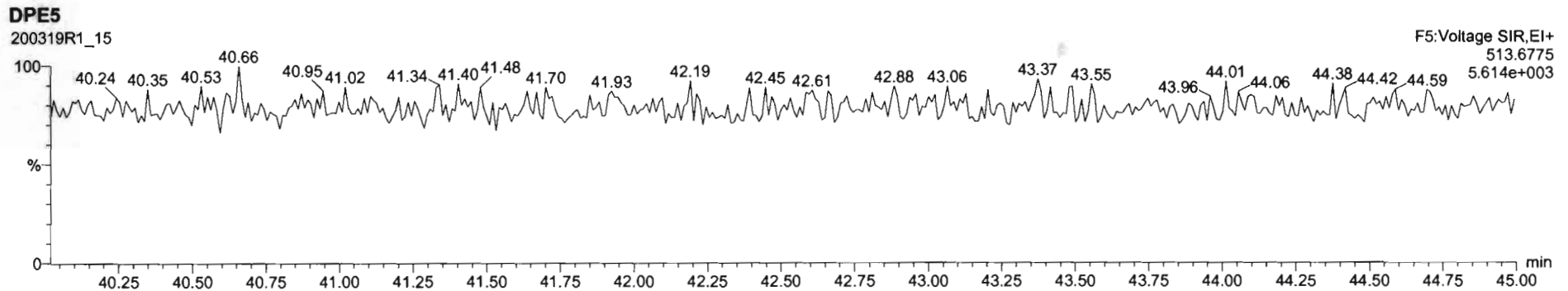
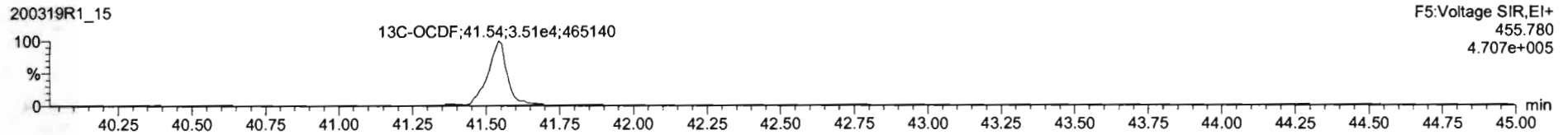
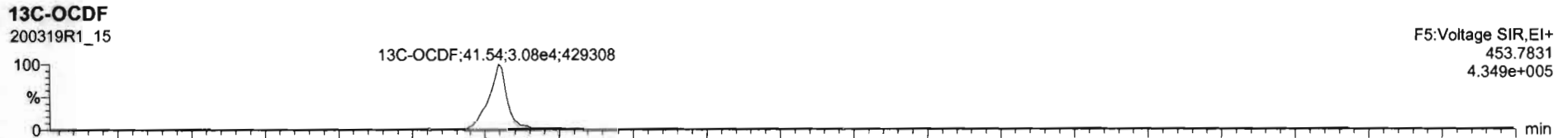
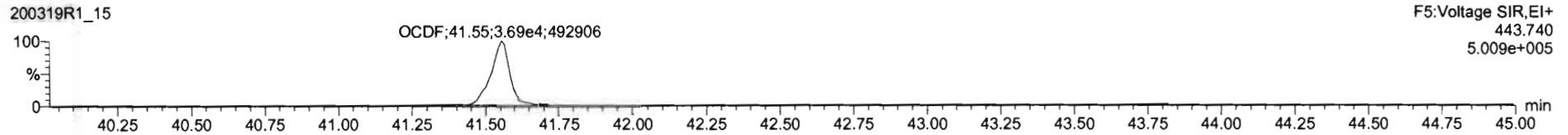
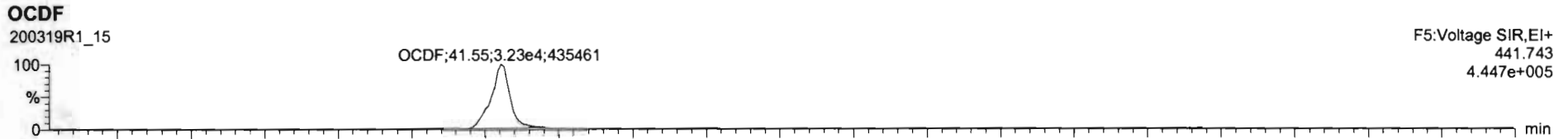


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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_15, Date: 20-Mar-2020, Time: 03:27:05, ID: 1903654-08RE3@5X PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

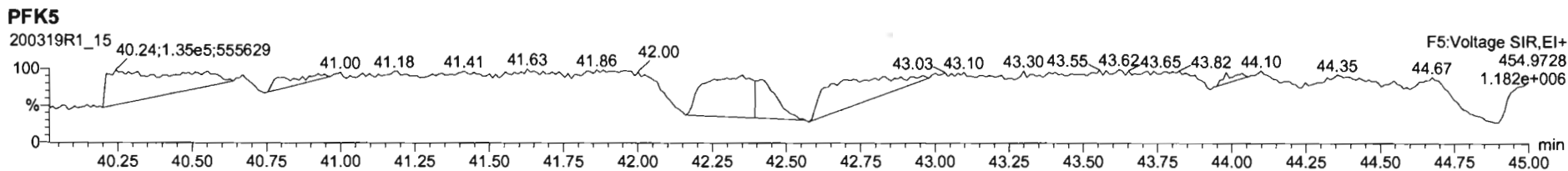
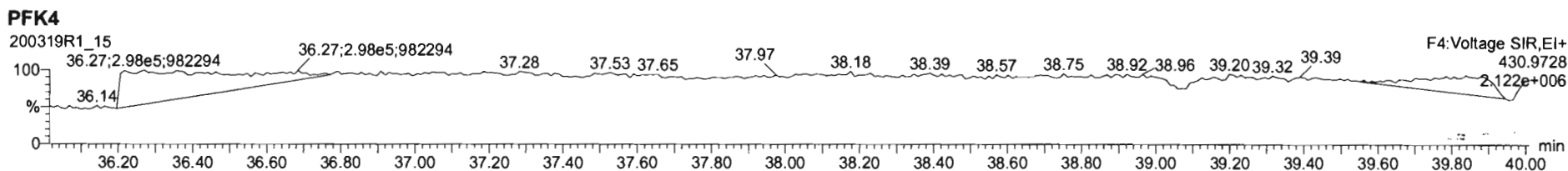
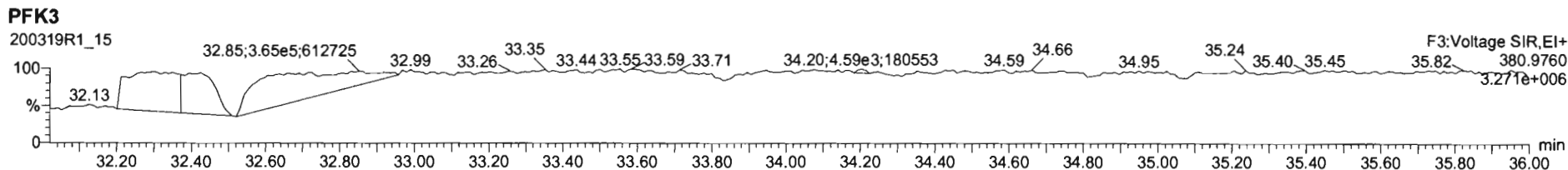
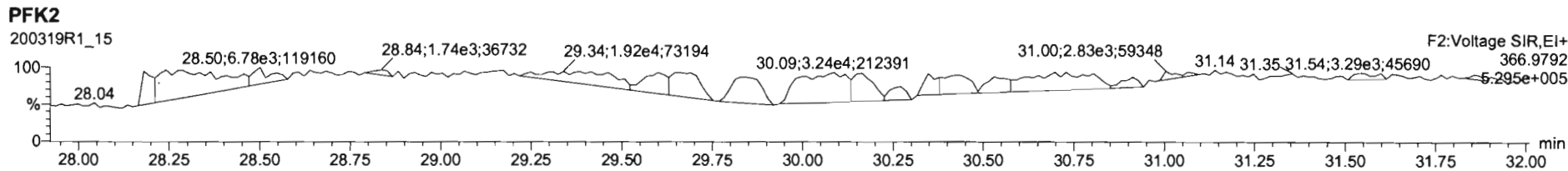
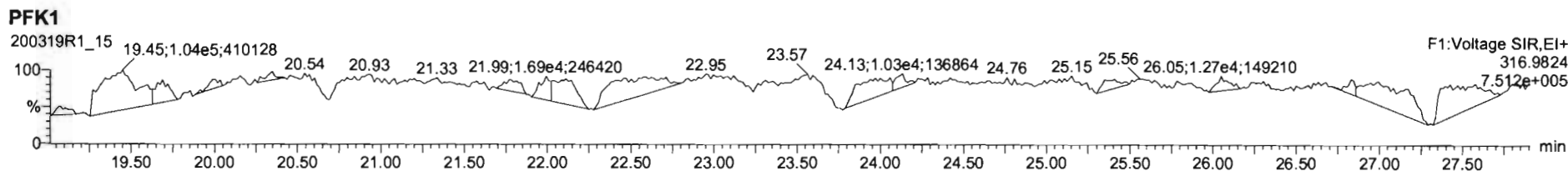


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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_15, Date: 20-Mar-2020, Time: 03:27:05, ID: 1903654-08RE3@5X PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

Last Altered: Wednesday, February 12, 2020 08:23:57 Pacific Standard Time

Printed: Wednesday, February 12, 2020 08:24:47 Pacific Standard Time

GPB 02/12/2020

C7 02/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.29e3	0.55	YES	0.988	10.012	25.721	25.70	1.001	1.001	0.33091		0.141	0.271
2	2 1,2,3,7,8-PeCDD	1.34e3	0.69	NO	0.972	10.012	30.657	30.64	1.001	1.000	0.23253		0.131	0.233
3	3 1,2,3,4,7,8-HxCDD	1.51e3	1.28	NO	1.07	10.012	33.997	34.00	1.000	1.000	0.29412		0.108	0.294
4	4 1,2,3,6,7,8-HxCDD	7.89e3	1.23	NO	0.921	10.012	34.083	34.10	1.000	1.001	1.5040		0.110	1.50
5	5 1,2,3,7,8,9-HxCDD	3.42e3	1.21	NO	0.918	10.012	34.404	34.39	1.001	1.001	0.65985		0.115	0.660
6	6 1,2,3,4,6,7,8-HpCDD	1.81e5	1.00	NO	0.923	10.012	37.918	37.92	1.000	1.000	41.746		0.346	41.7
7	7 OCDD	1.52e6	0.87	NO	0.975	10.012	40.910	40.92	1.000	1.000	389.75		0.233	390
8	8 2,3,7,8-TCDF	5.60e4	0.76	NO	0.802	10.012	24.832	24.82	1.001	1.001	7.3205 (6.60)		0.107	7.32
9	9 1,2,3,7,8-PeCDF	7.37e4	1.49	NO	0.907	10.012	29.376	29.37	1.001	1.001	8.6074		0.107	8.61
10	10 2,3,4,7,8-PeCDF	3.14e4	1.42	NO	0.952	10.012	30.361	30.35	1.001	1.001	3.7727		0.104	3.77
11	11 1,2,3,4,7,8-HxCDF	8.21e4	1.15	NO	0.862	10.012	33.114	33.13	1.000	1.001	14.976		0.0924	15.0
12	12 1,2,3,6,7,8-HxCDF	2.03e4	1.22	NO	0.841	10.012	33.252	33.25	1.000	1.000	3.6753		0.0949	3.68
13	13 2,3,4,6,7,8-HxCDF	6.65e3	1.16	NO	0.898	10.012	33.851	33.83	1.001	1.000	1.1929		0.0933	1.19
14	14 1,2,3,7,8,9-HxCDF	2.50e3	1.10	NO	0.858	10.012	34.722	34.75	1.000	1.001	0.48931		0.115	0.489
15	15 1,2,3,4,6,7,8-HpCDF	3.31e4	0.95	NO	0.851	10.012	36.505	36.49	1.001	1.001	8.4341		0.121	8.43
16	16 1,2,3,4,7,8,9-HpCDF	7.75e3	0.93	NO	0.980	10.012	38.503	38.50	1.000	1.000	2.2727		0.120	2.27
17	17 OCDF	6.55e4	0.84	NO	0.806	10.012	41.102	41.11	1.000	1.000	18.475		0.113	18.5
18	18 13C-2,3,7,8-TCDD	1.40e6	0.80	NO	1.20	10.012	25.675	25.69	1.026	1.026	202.38	101	0.285	
19	19 13C-1,2,3,7,8-PeCDD	1.18e6	0.64	NO	0.967	10.012	30.414	30.64	1.215	1.224	211.35	106	0.332	
20	20 13C-1,2,3,4,7,8-HxCDD	9.55e5	1.27	NO	0.874	10.012	33.987	33.99	1.014	1.014	182.16	91.2	0.304	
21	21 13C-1,2,3,6,7,8-HxCDD	1.14e6	1.26	NO	1.05	10.012	34.088	34.08	1.017	1.017	181.37	90.8	0.254	
22	22 13C-1,2,3,7,8,9-HxCDD	1.13e6	1.24	NO	0.974	10.012	34.389	34.37	1.026	1.025	192.68	96.5	0.272	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.37e5	1.04	NO	0.747	10.012	37.942	37.91	1.132	1.131	208.99	105	0.530	
24	24 13C-OCDD	1.59e6	0.92	NO	0.707	10.012	40.825	40.91	1.218	1.221	376.17	94.2	0.292	
25	25 13C-2,3,7,8-TCDF	1.91e6	0.78	NO	1.07	10.012	24.857	24.81	0.993	0.991	192.54	96.4	0.379	
26	26 13C-1,2,3,7,8-PeCDF	1.89e6	1.57	NO	1.00	10.012	29.187	29.35	1.166	1.173	202.67	101	0.340	
27	27 13C-2,3,4,7,8-PeCDF	1.75e6	1.56	NO	0.962	10.012	30.139	30.33	1.204	1.212	195.68	98.0	0.354	
28	28 13C-1,2,3,4,7,8-HxCDF	1.27e6	0.51	NO	1.05	10.012	33.116	33.11	0.988	0.988	201.85	101	0.411	
29	29 13C-1,2,3,6,7,8-HxCDF	1.31e6	0.51	NO	1.19	10.012	33.216	33.24	0.991	0.992	184.19	92.2	0.362	
30	30 13C-2,3,4,6,7,8-HxCDF	1.24e6	0.52	NO	1.07	10.012	33.823	33.82	1.009	1.009	193.84	97.0	0.404	
31	31 13C-1,2,3,7,8,9-HxCDF	1.19e6	0.51	NO	0.922	10.012	34.725	34.72	1.036	1.036	214.96	108	0.468	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

Last Altered: Wednesday, February 12, 2020 08:23:57 Pacific Standard Time

Printed: Wednesday, February 12, 2020 08:24:47 Pacific Standard Time

Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.21e5	0.43	NO	0.767	10.012	36.468	36.47	1.088	1.088	200.23	100	0.462	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.95e5	0.43	NO	0.552	10.012	38.479	38.50	1.148	1.149	209.80	105	0.642	
34	34 13C-OCDF	1.76e6	0.87	NO	0.789	10.012	41.060	41.10	1.225	1.226	371.54	93.0	0.319	
35	35 37Cl-2,3,7,8-TCDD	5.57e5			1.18	10.012	25.708	25.70	1.027	1.027	81.902	102	0.0984	
36	36 13C-1,2,3,4-TCDD	1.15e6	0.80	NO	1.00	10.012	25.080	25.03	1.000	1.000	199.76	100	0.341	
37	37 13C-1,2,3,4-TCDF	1.86e6	0.79	NO	1.00	10.012	23.420	23.37	1.000	1.000	199.76	100	0.404	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	10.012	33.520	33.52	1.000	1.000	199.76	100	0.431	
39	39 Total Tetra-Dioxins				0.988	10.012	24.620		0.000		1.8908		0.141	2.16
40	40 Total Penta-Dioxins				0.972	10.012	29.960		0.000		2.4738		0.131	2.47
41	41 Total Hexa-Dioxins				0.921	10.012	33.635		0.000		14.299		0.117	14.3
42	42 Total Hepta-Dioxins				0.923	10.012	37.640		0.000		96.185		0.346	96.2
43	43 Total Tetra-Furans				0.802	10.012	23.610		0.000		28.335		0.107	29.9
44	44 1st Func. Penta-Furans				0.907	10.012	27.090		0.000		2.6604		0.0571	2.66
45	45 Total Penta-Furans				0.907	10.012	29.275		0.000		24.599		0.108	24.6
46	46 Total Hexa-Furans				0.898	10.012	33.555		0.000		29.520		0.0950	29.6
47	47 Total Hepta-Furans				0.851	10.012	37.835		0.000		23.101		0.129	23.1

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

Last Altered: Wednesday, February 12, 2020 08:23:57 Pacific Standard Time

Printed: Wednesday, February 12, 2020 08:24:47 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.74	2.963e4	3.802e4	3.111e3	3.514e3	0.89	NO	6.625e3	0.95586	0.95586	0.141
2	Total Tetra-Dioxins	22.14	9.037e3	1.048e4	7.551e2	1.004e3	0.75	NO	1.759e3	0.25378	0.25378	0.141
3	Total Tetra-Dioxins	24.00	6.272e3	9.228e3	4.117e2	5.429e2	0.76	NO	9.547e2	0.13774	0.13774	0.141
4	Total Tetra-Dioxins	25.44	2.469e4	2.804e4	1.735e3	2.032e3	0.85	NO	3.767e3	0.54346	0.54346	0.141
5	2,3,7,8-TCDD	25.70	1.313e4	1.964e4	8.173e2	1.476e3	0.55	YES	2.294e3	0.00000	0.27106	0.141

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.44	2.325e4	3.592e4	1.679e3	2.941e3	0.57	NO	4.620e3	0.80421	0.80421	0.131
2	Total Penta-Dioxins	28.91	9.834e3	1.313e4	5.451e2	8.355e2	0.65	NO	1.381e3	0.24032	0.24032	0.131
3	Total Penta-Dioxins	29.42	1.454e4	2.347e4	1.002e3	1.524e3	0.66	NO	2.526e3	0.43975	0.43975	0.131
4	Total Penta-Dioxins	29.58	8.677e3	1.907e4	5.545e2	9.466e2	0.59	NO	1.501e3	0.26131	0.26131	0.131
5	Total Penta-Dioxins	29.66	9.595e3	9.869e3	3.281e2	5.254e2	0.62	NO	8.534e2	0.14856	0.14856	0.131
6	Total Penta-Dioxins	29.87	1.432e4	1.197e4	7.997e2	1.194e3	0.67	NO	1.994e3	0.34707	0.34707	0.131
7	1,2,3,7,8-PeCDD	30.64	1.197e4	1.629e4	5.438e2	7.920e2	0.69	NO	1.336e3	0.23253	0.23253	0.131

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	2.999e5	2.394e5	1.430e4	1.229e4	1.16	NO	2.659e4	5.3755	5.3755	0.117
2	Total Hexa-Dioxins	33.06	3.837e4	3.177e4	1.900e3	1.511e3	1.26	NO	3.411e3	0.68951	0.68951	0.117
3	Total Hexa-Dioxins	33.33	2.253e5	1.852e5	1.459e4	1.163e4	1.25	NO	2.622e4	5.3014	5.3014	0.117
4	Total Hexa-Dioxins	33.43	1.308e4	1.449e4	7.468e2	6.263e2	1.19	NO	1.373e3	0.27758	0.27758	0.117
5	1,2,3,4,7,8-HxCDD	34.00	1.643e4	1.335e4	8.451e2	6.601e2	1.28	NO	1.505e3	0.29412	0.29412	0.108
6	1,2,3,6,7,8-HxCDD	34.10	8.192e4	6.367e4	4.357e3	3.532e3	1.23	NO	7.889e3	1.5040	1.5040	0.110
7	Total Hexa-Dioxins	34.28	9.599e3	1.122e4	5.103e2	4.658e2	1.10	NO	9.761e2	0.19732	0.19732	0.117
8	1,2,3,7,8,9-HxCDD	34.39	3.375e4	2.998e4	1.867e3	1.548e3	1.21	NO	3.415e3	0.65985	0.65985	0.115

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

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Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.87	1.770e6	1.793e6	1.186e5	1.171e5	1.01	NO	2.356e5	54.439	54.439	0.346
2	1,2,3,4,6,7,8-HpCDD	37.92	1.340e6	1.314e6	9.026e4	9.042e4	1.00	NO	1.807e5	41.746	41.746	0.346

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.63	8.525e3	9.587e3	6.545e2	7.440e2	0.88	NO	1.398e3	0.18284	0.18284	0.107
2	Total Tetra-Furans	20.15	1.075e4	1.003e4	8.393e2	9.481e2	0.89	NO	1.787e3	0.23370	0.23370	0.107
3	Total Tetra-Furans	20.77	1.973e5	2.488e5	1.778e4	2.258e4	0.79	NO	4.037e4	5.2779	5.2779	0.107
4	Total Tetra-Furans	21.19	6.619e3	9.601e3	4.537e2	5.917e2	0.77	NO	1.045e3	0.13669	0.13669	0.107
5	Total Tetra-Furans	21.30	2.367e4	2.748e4	2.366e3	2.838e3	0.83	NO	5.204e3	0.68036	0.68036	0.107
6	Total Tetra-Furans	21.71	7.603e4	9.682e4	7.394e3	9.705e3	0.76	NO	1.710e4	2.2356	2.2356	0.107
7	Total Tetra-Furans	22.20	3.061e4	4.111e4	2.669e3	3.812e3	0.70	NO	6.481e3	0.84743	0.84743	0.107
8	Total Tetra-Furans	22.35	6.310e3	7.820e3	3.732e2	5.547e2	0.67	NO	9.280e2	0.12133	0.12133	0.107
9	Total Tetra-Furans	22.55	1.951e4	2.089e4	1.472e3	1.932e3	0.76	NO	3.404e3	0.44509	0.44509	0.107
10	Total Tetra-Furans	23.31	3.221e4	3.910e4	2.085e3	2.362e3	0.88	NO	0.000e0	0.00000	0.58143	0.107
11	Total Tetra-Furans	23.37	6.069e4	8.167e4	5.910e3	8.132e3	0.73	NO	1.404e4	1.8359	1.8359	0.107
12	Total Tetra-Furans	23.89	2.656e5	3.555e5	2.176e4	2.933e4	0.74	NO	5.109e4	6.6797	6.6797	0.107
13	Total Tetra-Furans	24.19	1.578e4	1.855e4	1.044e3	1.247e3	0.84	NO	2.291e3	0.29957	0.29957	0.107
14	Total Tetra-Furans	24.37	6.899e3	5.709e3	5.011e2	6.103e2	0.82	NO	1.111e3	0.14531	0.14531	0.107
15	Total Tetra-Furans	24.58	6.845e3	9.784e3	4.361e2	6.595e2	0.66	NO	1.096e3	0.14325	0.14325	0.107
16	Total Tetra-Furans	24.72	5.950e4	9.036e4	3.872e3	5.464e3	0.71	NO	9.335e3	1.2205	1.2205	0.107
17	2,3,7,8-TCDF	24.82	3.361e5	4.403e5	2.411e4	3.188e4	0.76	NO	5.599e4	7.3205	7.3205	0.107
18	Total Tetra-Furans	25.20	1.899e4	2.347e4	1.299e3	1.808e3	0.72	NO	3.107e3	0.40619	0.40619	0.107
19	Total Tetra-Furans	25.45	5.944e3	8.812e3	4.308e2	5.136e2	0.84	NO	9.444e2	0.12348	0.12348	0.107
20	Total Tetra-Furans	26.81	6.462e4	5.776e4	4.054e3	4.136e3	0.98	YES	0.000e0	0.00000	0.95716	0.107

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.81	2.094e5	1.340e5	1.328e4	8.671e3	1.53	NO	2.195e4	2.6604	2.6604	0.0571

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

Last Altered: Wednesday, February 12, 2020 08:23:57 Pacific Standard Time
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Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.24	2.399e4	1.567e4	1.612e3	1.003e3	1.61	NO	2.614e3	0.31680	0.31680	0.108
2	Total Penta-Furans	28.39	4.253e5	2.563e5	2.774e4	1.733e4	1.60	NO	4.507e4	5.4611	5.4611	0.108
3	Total Penta-Furans	28.47	1.771e4	1.625e4	7.655e2	4.568e2	1.68	NO	1.222e3	0.14812	0.14812	0.108
4	Total Penta-Furans	28.96	6.967e4	4.559e4	3.849e3	2.469e3	1.56	NO	6.318e3	0.76564	0.76564	0.108
5	Total Penta-Furans	29.05	1.794e4	1.040e4	7.536e2	4.292e2	1.76	NO	1.183e3	0.14333	0.14333	0.108
6	Total Penta-Furans	29.19	8.203e4	6.752e4	4.605e3	3.349e3	1.37	NO	7.954e3	0.96386	0.96386	0.108
7	1,2,3,7,8-PeCDF	29.37	8.109e5	5.643e5	4.417e4	2.955e4	1.49	NO	7.372e4	8.6074	8.6074	0.107
8	Total Penta-Furans	29.63	2.716e5	1.685e5	1.552e4	9.805e3	1.58	NO	2.532e4	3.0683	3.0683	0.108
9	Total Penta-Furans	30.24	1.097e4	8.049e3	5.018e2	3.458e2	1.45	NO	8.475e2	0.10270	0.10270	0.108
10	2,3,4,7,8-PeCDF	30.35	3.616e5	2.422e5	1.846e4	1.295e4	1.42	NO	3.141e4	3.7727	3.7727	0.104
11	Total Penta-Furans	30.38	1.973e5	1.376e5	5.007e3	3.147e3	1.59	NO	8.154e3	0.98812	0.98812	0.108
12	Total Penta-Furans	31.28	2.463e4	1.440e4	1.329e3	8.218e2	1.62	NO	2.151e3	0.26062	0.26062	0.108

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.96	6.105e4	5.146e4	2.751e3	2.465e3	1.12	NO	5.217e3	0.92570	0.92570	0.0950
2	Total Hexa-Furans	32.13	2.275e5	1.635e5	1.017e4	8.203e3	1.24	NO	1.837e4	3.2603	3.2603	0.0950
3	Total Hexa-Furans	32.49	5.850e3	6.689e3	2.497e2	2.604e2	0.96	YES	0.000e0	0.00000	0.080056	0.0950
4	Total Hexa-Furans	32.67	2.237e5	1.974e5	1.062e4	8.838e3	1.20	NO	1.945e4	3.4522	3.4522	0.0950
5	Total Hexa-Furans	33.03	1.695e4	1.114e4	7.038e2	5.549e2	1.27	NO	1.259e3	0.22335	0.22335	0.0950
6	1,2,3,4,7,8-HxCDF	33.13	8.785e5	7.680e5	4.390e4	3.821e4	1.15	NO	8.211e4	14.976	14.976	0.0924
7	1,2,3,6,7,8-HxCDF	33.25	2.120e5	1.657e5	1.118e4	9.173e3	1.22	NO	2.035e4	3.6753	3.6753	0.0949
8	Total Hexa-Furans	33.53	6.612e3	5.429e3	3.267e2	2.331e2	1.40	NO	5.597e2	0.099320	0.099320	0.0950
9	2,3,4,6,7,8-HxCDF	33.83	6.451e4	5.804e4	3.576e3	3.073e3	1.16	NO	6.649e3	1.1929	1.1929	0.0933
10	1,2,3,7,8,9-HxCDF	34.75	5.612e4	4.284e4	1.308e3	1.190e3	1.10	NO	2.499e3	0.48931	0.48931	0.115
11	Total Hexa-Furans	34.78	7.767e4	7.620e4	3.810e3	3.097e3	1.23	NO	6.907e3	1.2256	1.2256	0.0950

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-15.qld

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Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

Hepta-Furans

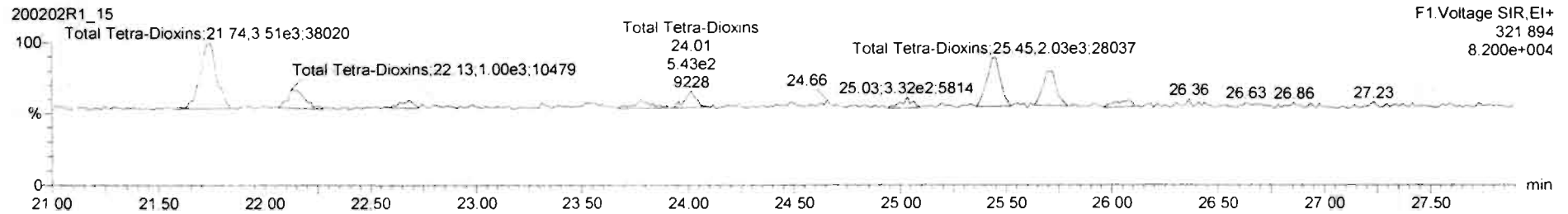
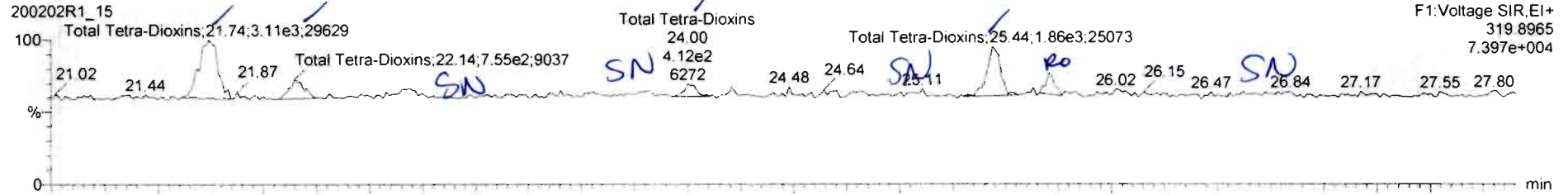
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.49	2.451e5	2.625e5	1.614e4	1.696e4	0.95	NO	3.310e4	8.4341	8.4341	0.121
2	Total Hepta-Furans	36.88	1.004e4	6.961e3	4.510e2	4.650e2	0.97	NO	9.159e2	0.26602	0.26602	0.129
3	Total Hepta-Furans	37.09	2.986e5	3.061e5	2.041e4	2.135e4	0.96	NO	4.176e4	12.128	12.128	0.129
4	1,2,3,4,7,8,9-HpCDF	38.50	7.163e4	6.732e4	3.738e3	4.010e3	0.93	NO	7.748e3	2.2727	2.2727	0.120

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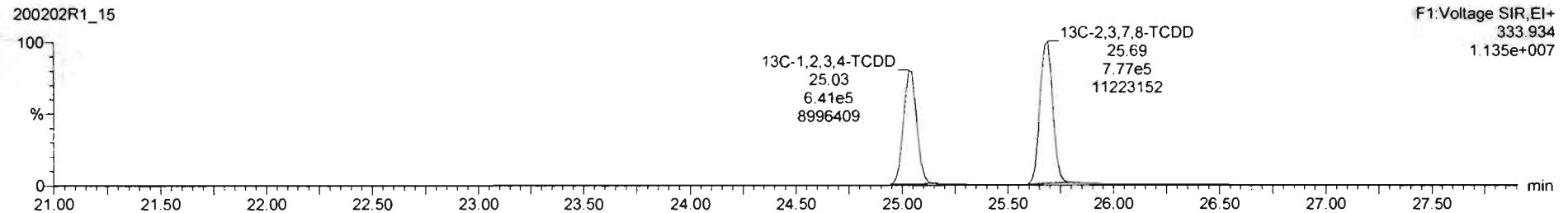
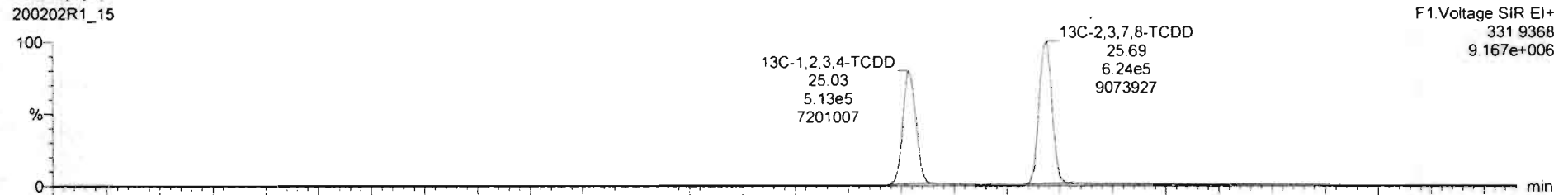
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD



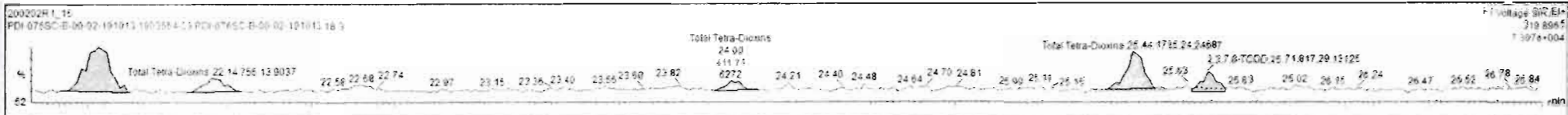
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200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191013 18 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.8801	10.012			1.00		0.141	2.16

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Dioxins	21.74	3.111e3	3.514e3	0.85	NO	0.95586
2	Total Tetra-Dioxins	22.14	7.551e2	1.004e3	0.75	NO	0.25378
3	Total Tetra-Dioxins	24.00	4.117e2	5.429e2	0.76	NO	0.13774
4	Total Tetra-Dioxins	25.44	1.735e3	2.032e3	0.85	NO	0.54348
5	2,3,7,8-TCDD	25.71	8.173e2	1.478e2	0.55	YES	0.27106



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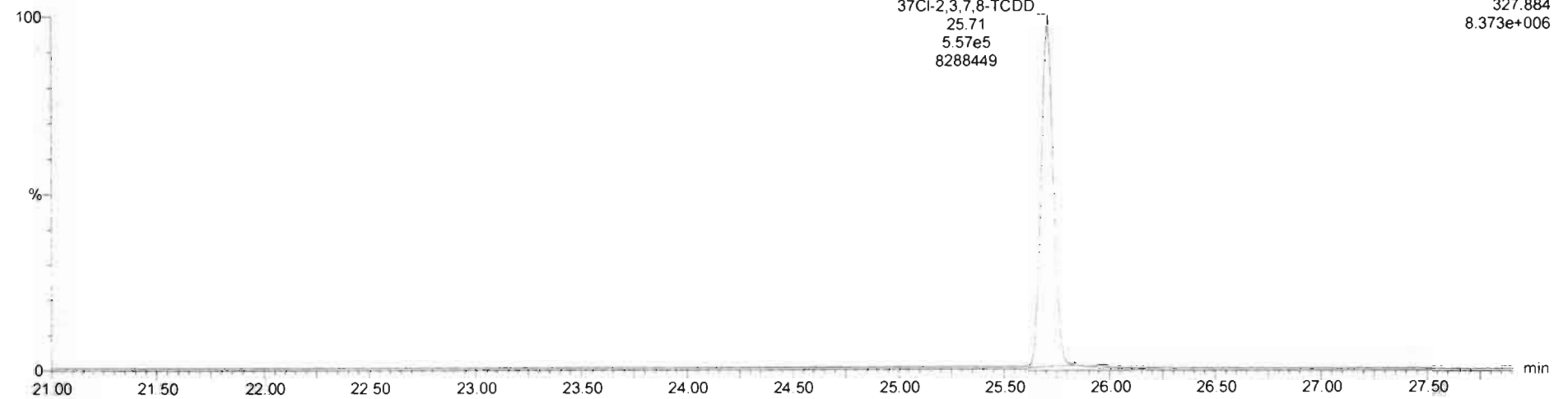
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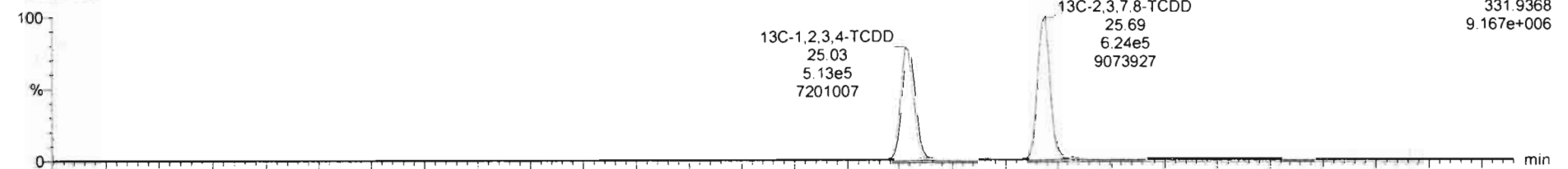
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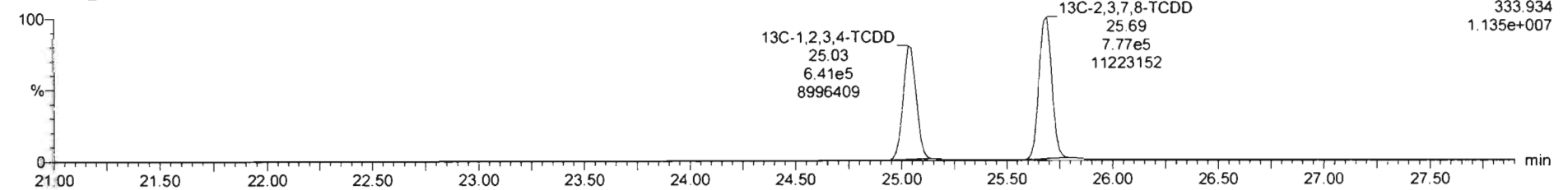


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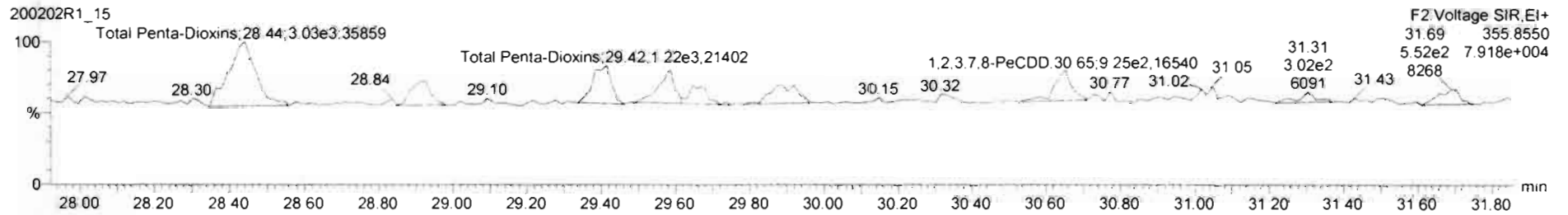
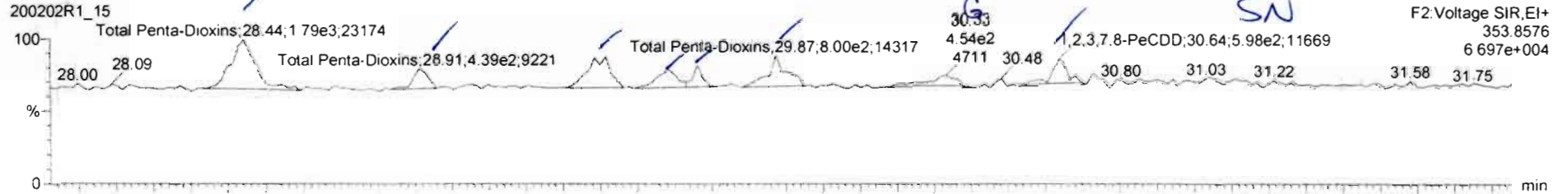


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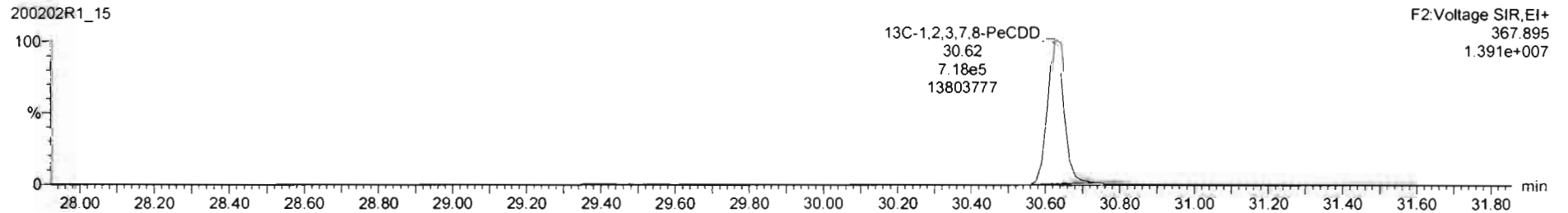
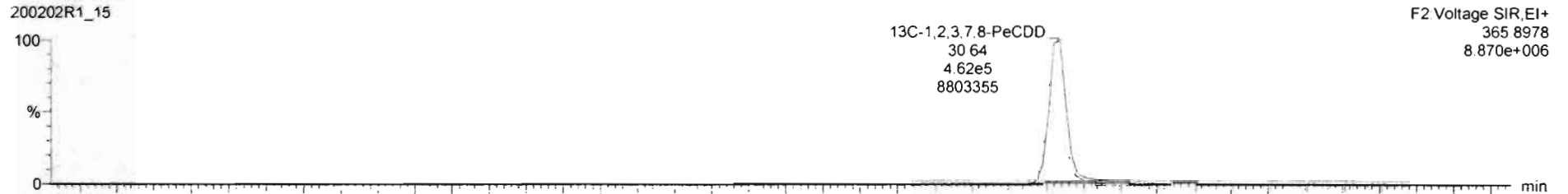
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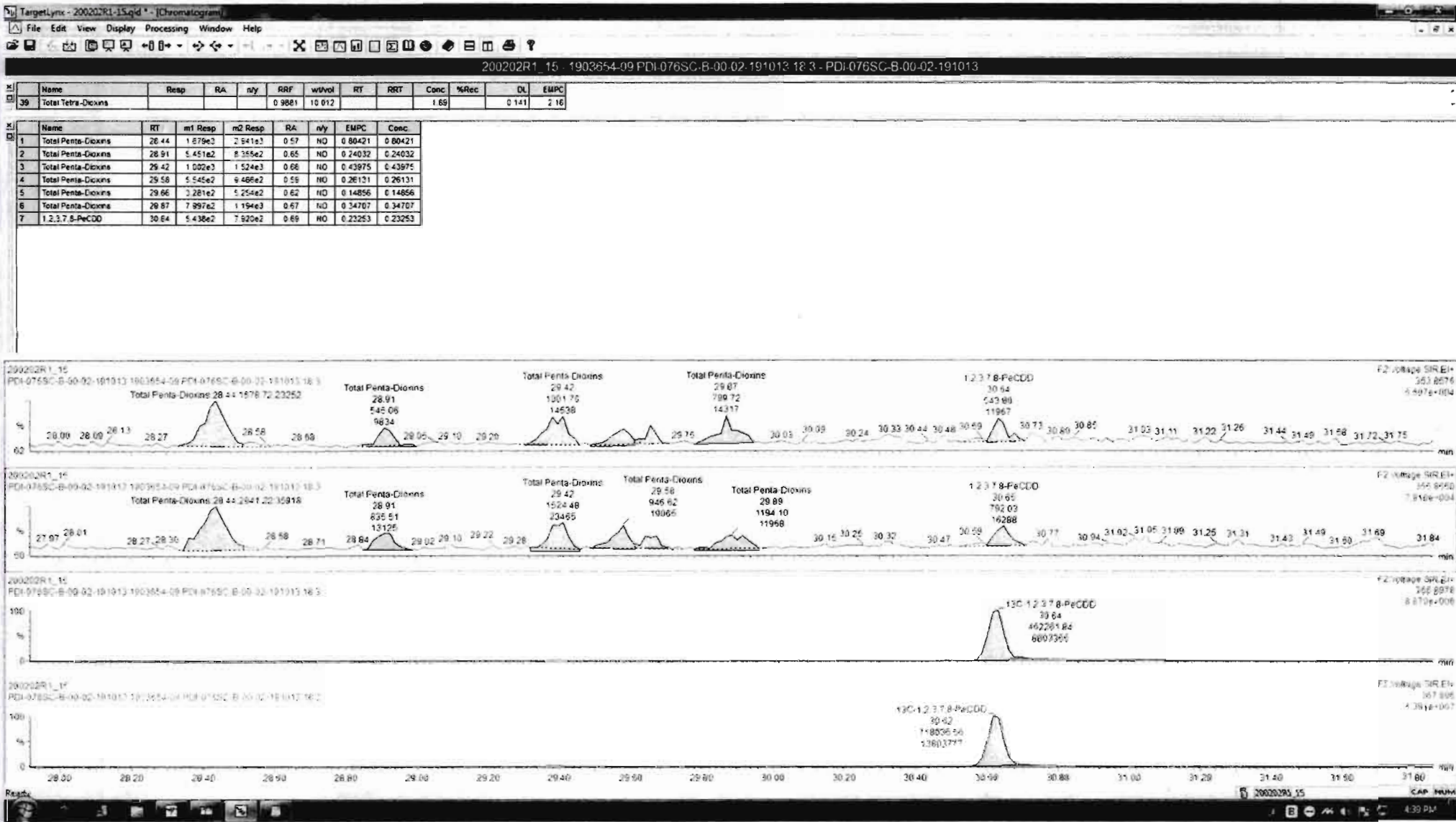
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD





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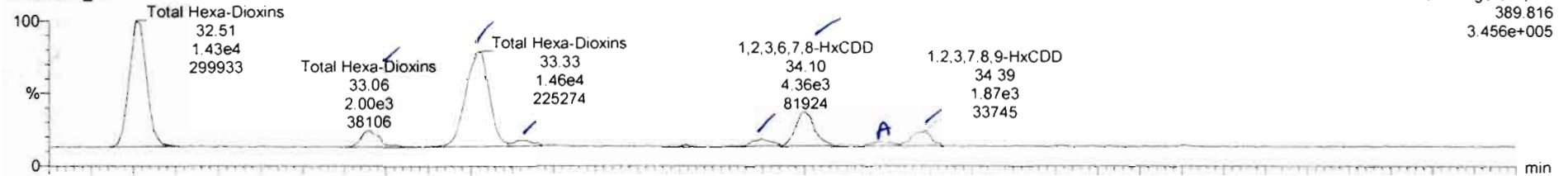
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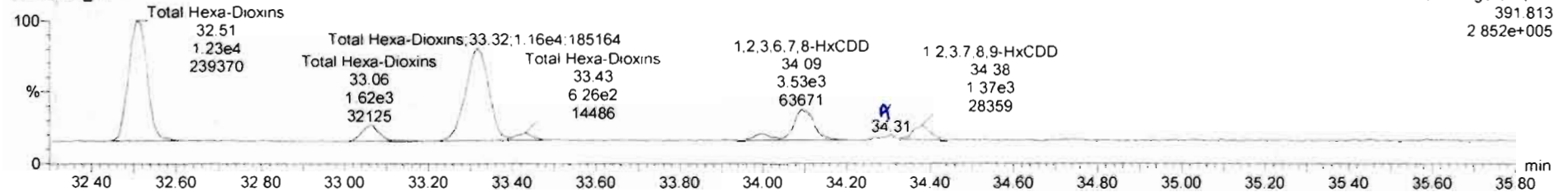
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1,2,3,4,7,8-HxCDD

200202R1_15

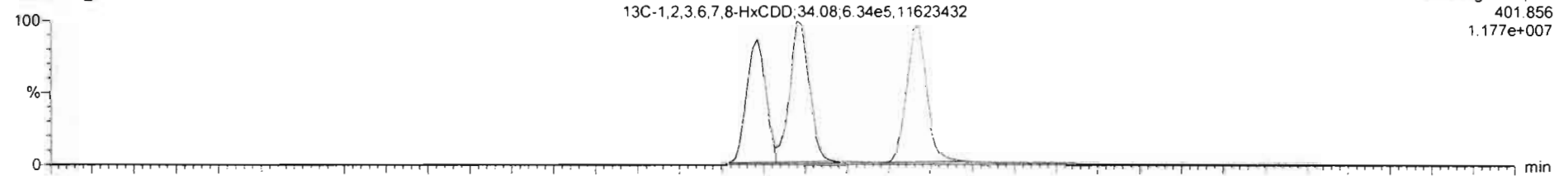


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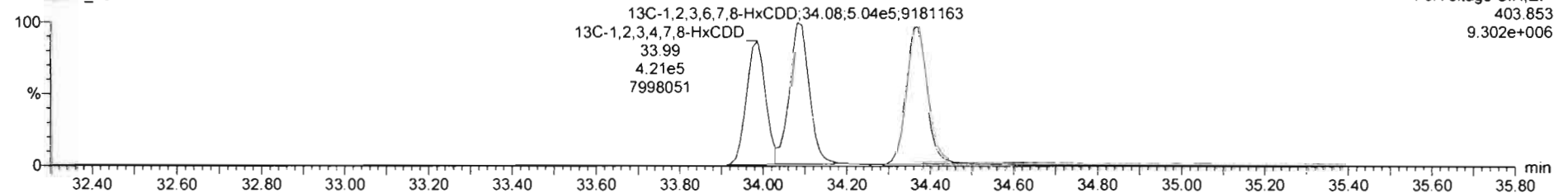


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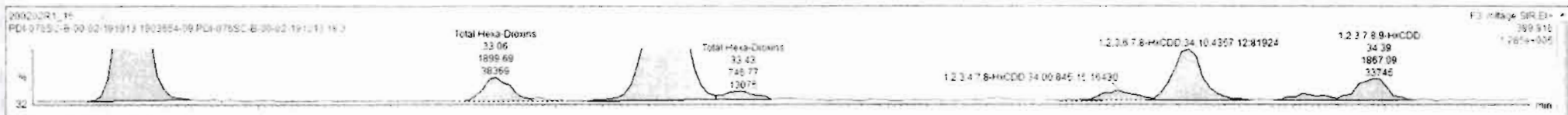
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200202R1_15_1903654-09 PDI-076SC-B-00-02-191013 18 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins			0.8211	10.012			14.3		0.117	14.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	1.2.3.7.8.9-HxCDD	34.39	1.967e3	1.548e3	1.21	NO	0.65965	0.65965
2	Total Hexa-Dioxins	34.28	5.102e2	4.658e2	1.10	NO	0.19732	0.19732
3	1.2.3.6.7.8-HxCDD	34.10	4.257e3	3.532e2	1.23	NO	1.5040	1.5040
4	1.2.3.4.7.8-HxCDD	34.00	8.451e2	6.601e2	1.28	NO	0.29412	0.29412
5	Total Hexa-Dioxins	33.43	7.468e2	6.263e2	1.19	NO	0.27758	0.27758
6	Total Hexa-Dioxins	33.33	1.459e4	1.163e4	1.25	NO	5.3014	5.3014
7	Total Hexa-Dioxins	33.06	1.900e3	1.511e3	1.26	NO	0.68951	0.68951
8	Total Hexa-Dioxins	32.51	1.430e4	1.229e4	1.16	NO	5.3755	5.3755



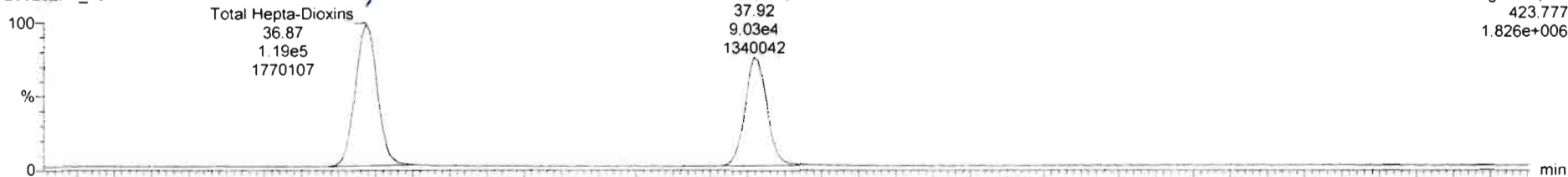
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Printed: Monday, February 03, 2020 09:34:09 Pacific Standard Time

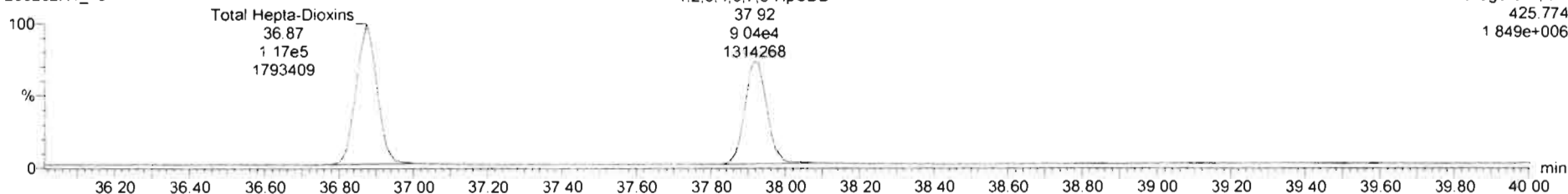
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1,2,3,4,6,7,8-HpCDD

200202R1_15

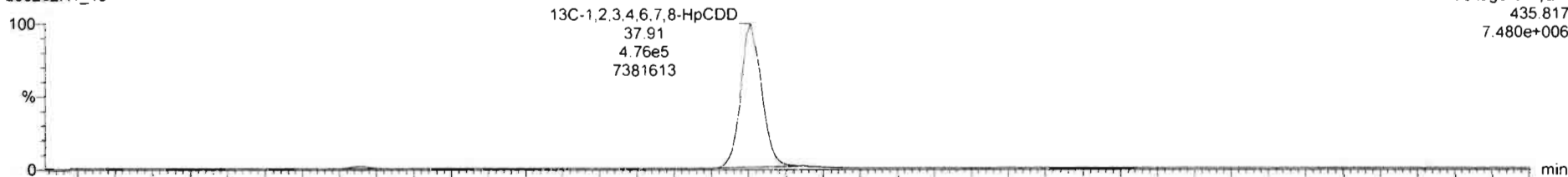


200202R1_15

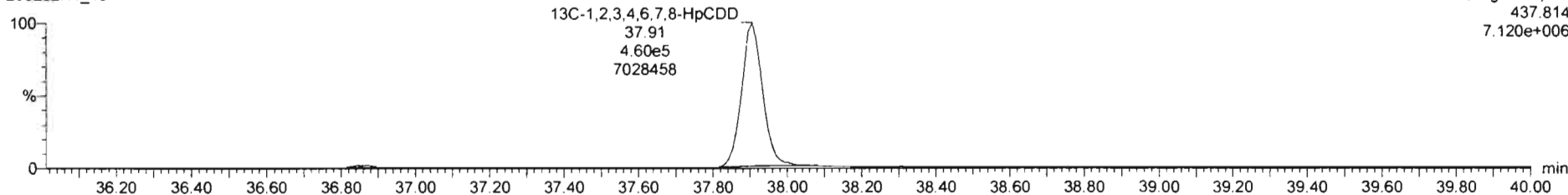


13C-1,2,3,4,6,7,8-HpCDD

200202R1_15



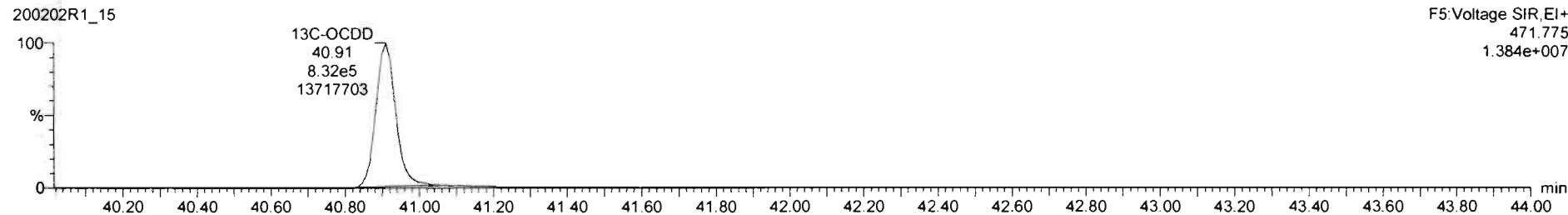
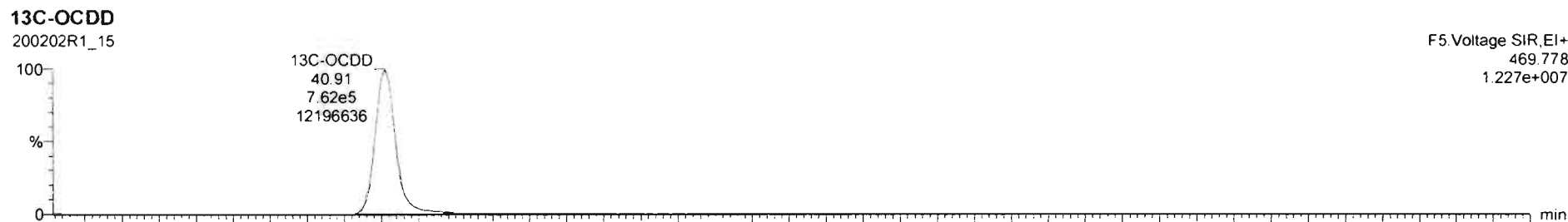
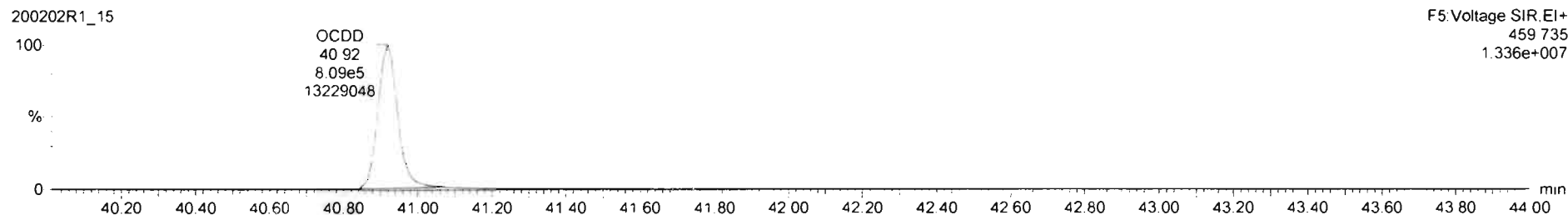
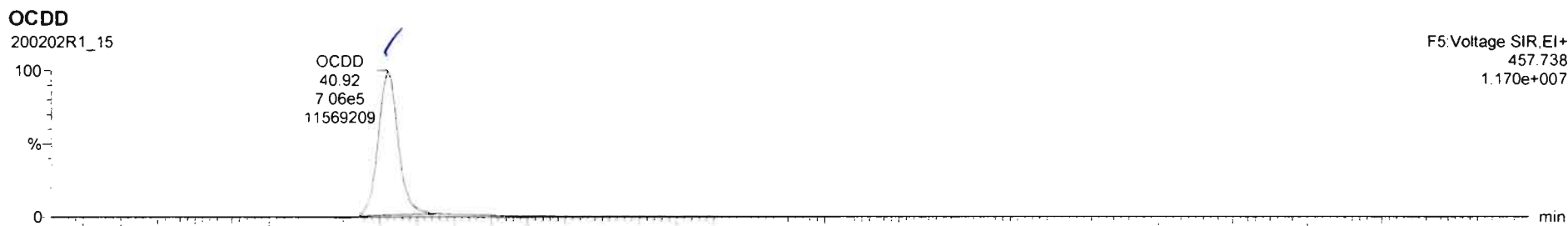
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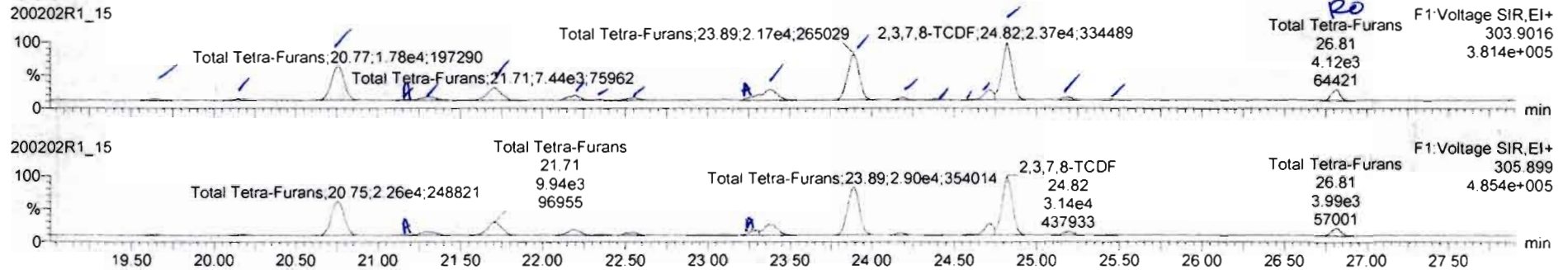


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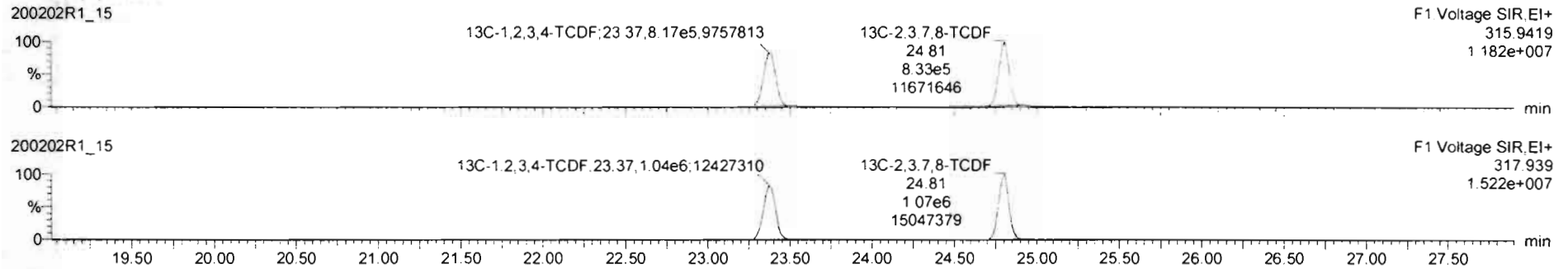
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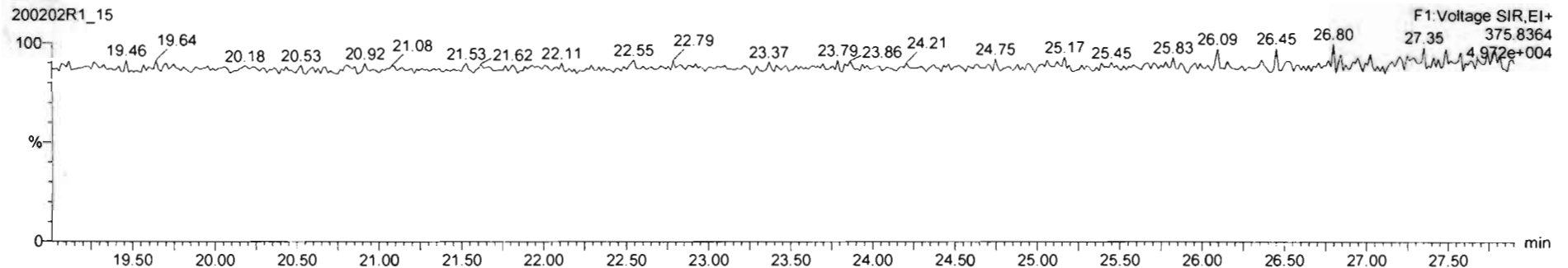
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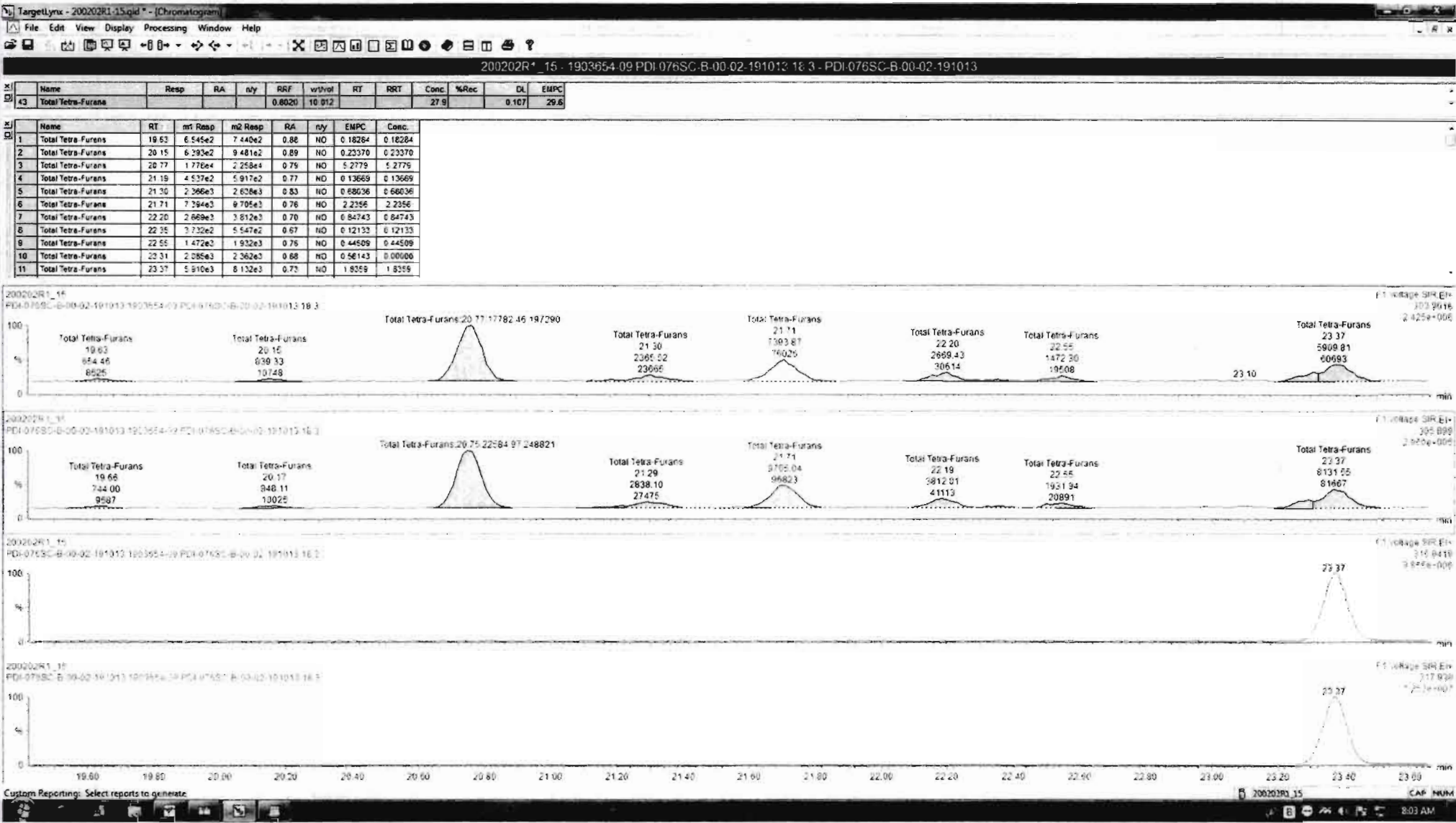


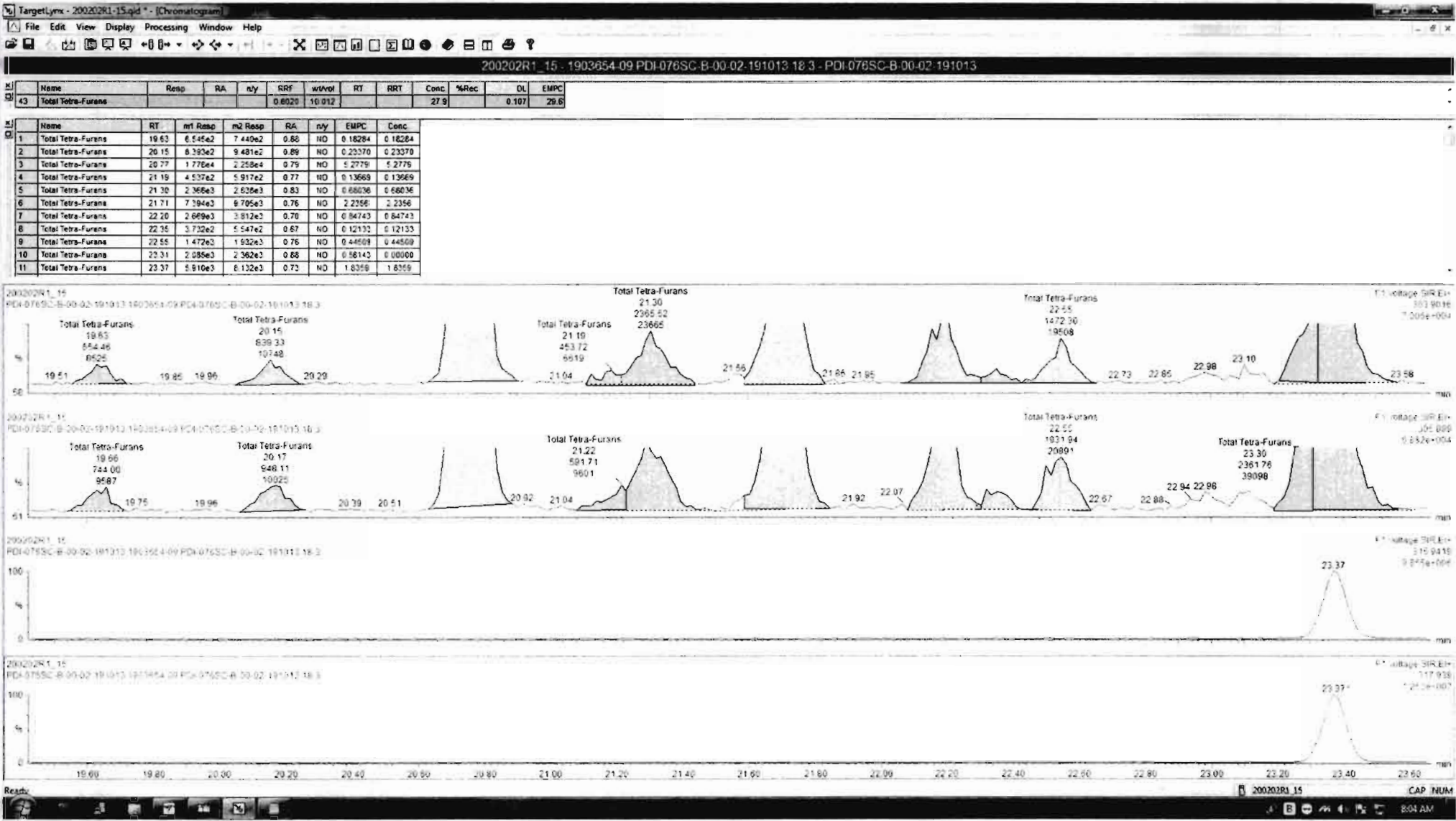
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DPE1



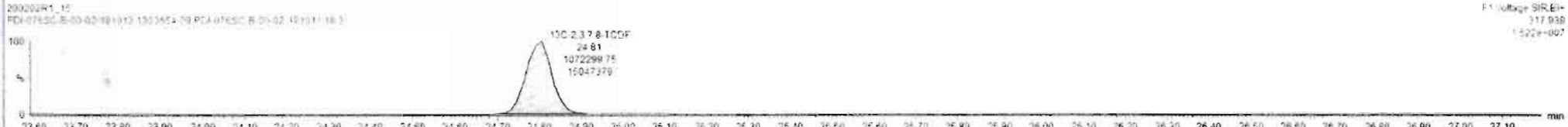
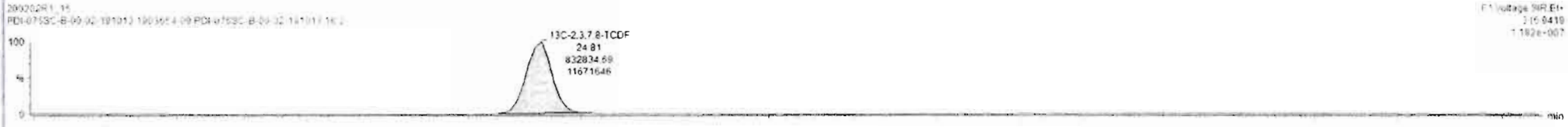
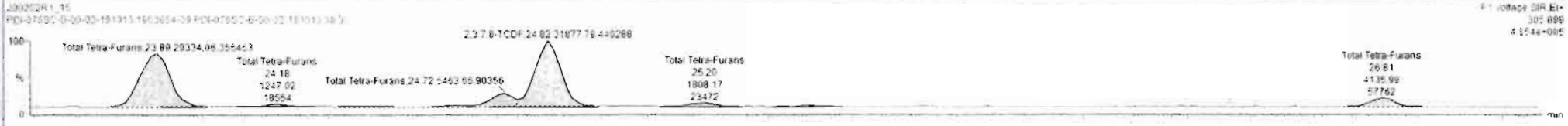
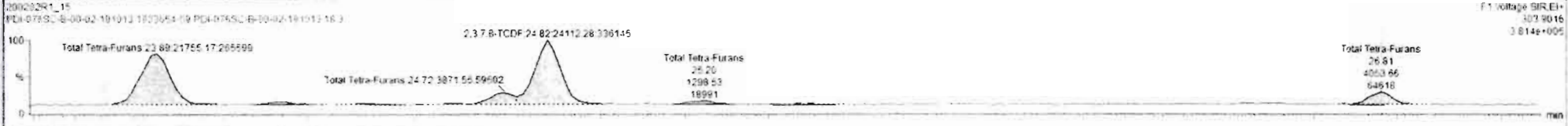




200202R1_15 - 1903654-09 PDI-076SC-B-00 02 191013 18.3 - PDI-076SC-B-00-02-191013

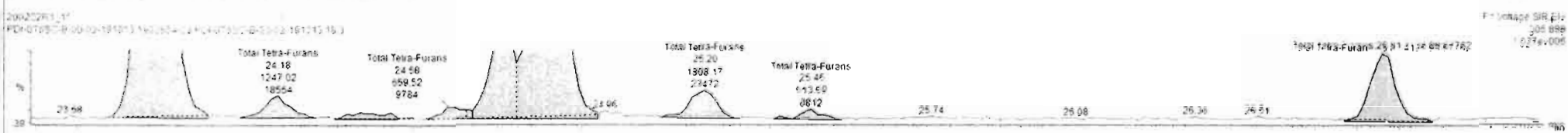
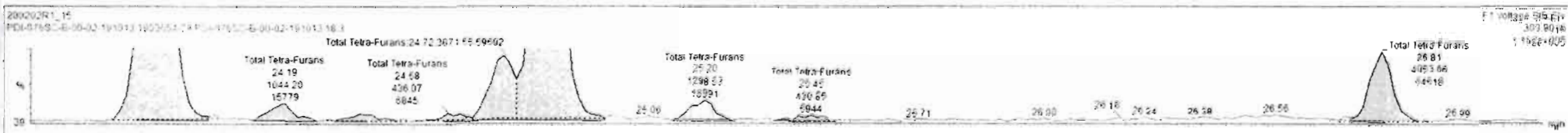
Name	Resp	RA	nly	RRF	wfvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.012			28.3		0.107	25.9

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
10 Total Tetra-Furans	23.31	2.025e3	2.362e3	0.86	NO	0.58142	0.00000
11 Total Tetra-Furans	23.37	5.910e2	6.132e3	0.73	NO	1.8359	1.8359
12 Total Tetra-Furans	23.89	2.178e4	2.935e4	0.74	NO	6.6797	6.6797
13 Total Tetra-Furans	24.19	1.044e3	1.247e3	0.84	NO	0.29957	0.29957
14 Total Tetra-Furans	24.37	5.011e2	6.103e2	0.82	NO	0.14531	0.14531
15 Total Tetra-Furans	24.58	4.361e2	6.595e2	0.66	NO	0.14325	0.14325
16 Total Tetra-Furans	24.72	3.872e3	5.464e3	0.71	NO	1.2205	1.2205
17 2,3,7,8-TCDF	24.82	2.411e4	3.188e4	0.76	NO	7.3205	7.3205
18 Total Tetra-Furans	25.20	1.299e3	1.808e3	0.72	NO	0.40619	0.40619
19 Total Tetra-Furans	25.45	4.306e2	5.136e2	0.64	NO	0.12348	0.12348
20 Total Tetra-Furans	26.81	4.054e3	4.136e3	0.98	ES	0.95716	0.00000



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8020	10.012			28.3		0.107	25.9

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
10 Total Tetra-Furans	23.31	2.005e3	2.262e3	0.88	NO	0.58142	0.00000
11 Total Tetra-Furans	23.37	5.910e3	5.132e3	0.73	NO	1.8359	1.8359
12 Total Tetra-Furans	23.88	2.178e4	2.032e4	0.74	NO	6.8797	6.8797
13 Total Tetra-Furans	24.19	1.044e3	1.247e3	0.84	NO	0.29957	0.29957
14 Total Tetra-Furans	24.37	5.011e2	4.103e2	0.82	NO	0.14531	0.14531
15 Total Tetra-Furans	24.58	4.261e2	4.595e2	0.66	NO	0.14325	0.14325
16 Total Tetra-Furans	24.72	3.872e3	5.464e3	0.71	NO	1.2205	1.2205
17 2,3,7,8-TCDF	24.82	2.411e4	1.188e4	0.78	NO	7.3205	7.3205
18 Total Tetra-Furans	25.26	1.296e3	1.808e2	0.72	NO	0.40619	0.40619
19 Total Tetra-Furans	25.45	4.306e2	5.136e2	0.64	NO	0.12348	0.12348
20 Total Tetra-Furans	26.81	4.054e3	4.136e3	0.98	YES	0.95718	0.00000



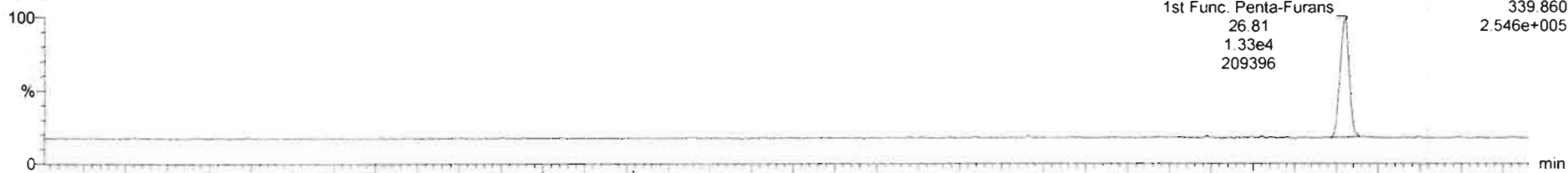
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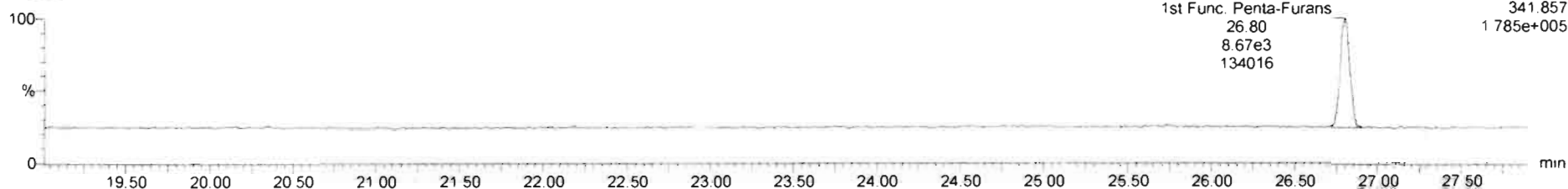
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1st Func. Penta-Furans

200202R1_15

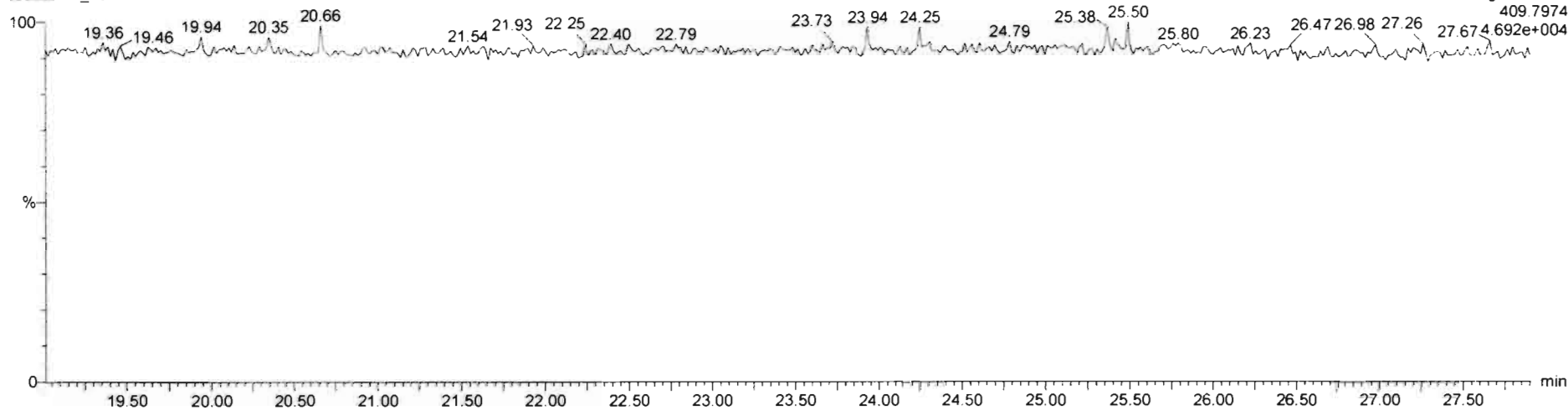


200202R1_15



DPE6

200202R1_15

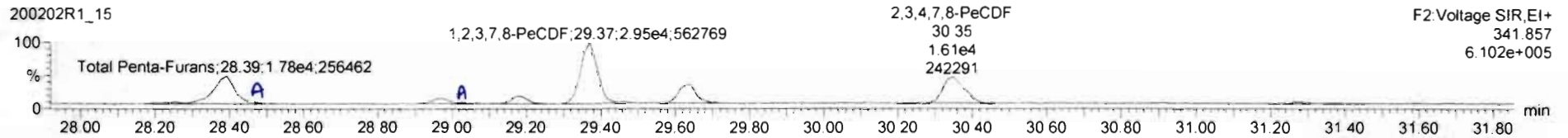
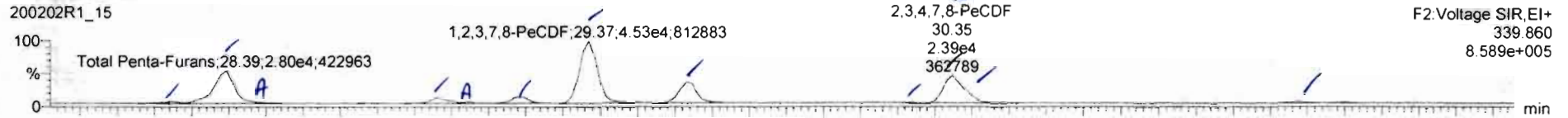


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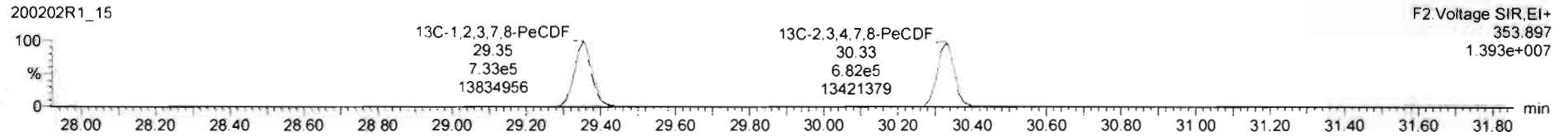
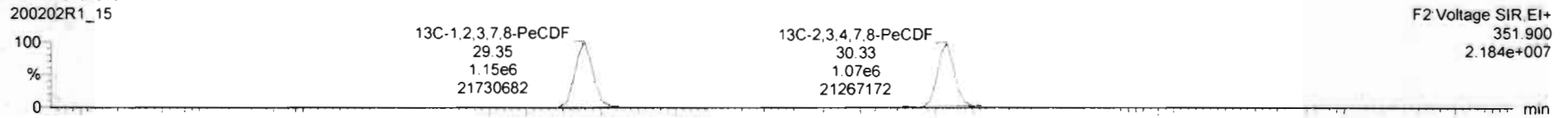
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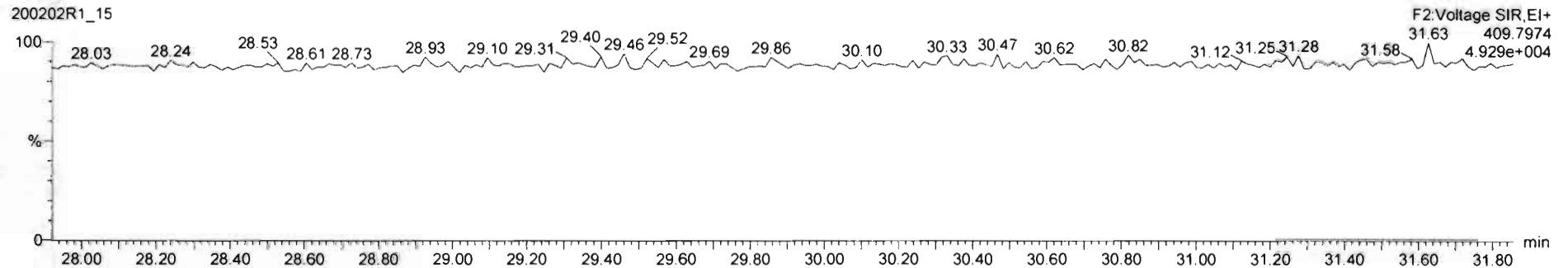
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



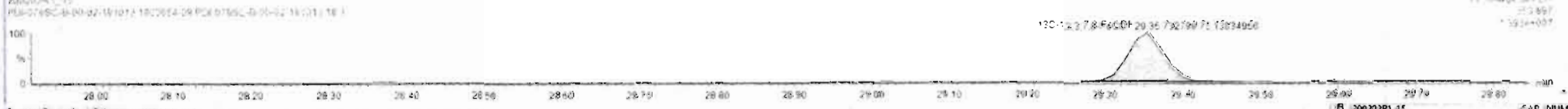
DPE2



200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191013 18 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	ry	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9074	10.012			24.6		0.106	24.7

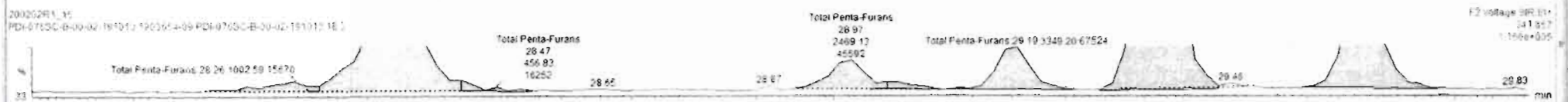
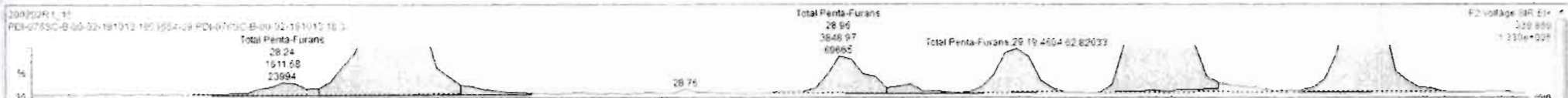
Name	RT	m1 Resp	m2 Resp	RA	ry	EMPC	Conc	
1	Total Penta-Furans	28.24	1.612e3	1.003e3	1.61	ND	0.31680	0.31680
2	Total Penta-Furans	28.35	2.774e4	1.733e4	1.60	ND	5.4611	5.4611
3	Total Penta-Furans	28.47	7.656e2	4.568e2	1.68	ND	0.14812	0.14812
4	Total Penta-Furans	28.56	3.849e3	2.469e2	1.56	ND	0.76564	0.76564
5	Total Penta-Furans	29.05	7.536e2	4.292e2	1.78	ND	0.14333	0.14333
6	Total Penta-Furans	29.15	4.895e2	3.349e2	1.37	ND	0.96386	0.96386
7	1,2,3,7,8-PeCDF	29.37	4.417e4	2.955e4	1.48	ND	3.8074	3.8074
8	Total Penta-Furans	29.53	1.552e4	9.805e3	1.56	ND	3.9683	3.9683
9	Total Penta-Furans	30.24	4.180e2	3.458e2	1.21	ES	0.083327	0.080000
10	2,2,4,7,8-PeCDF	30.35	2.385e4	1.612e4	1.48	ND	4.8007	4.8007
11	Total Penta-Furans	31.28	1.329e3	8.013e2	1.62	ND	0.29814	0.25614
12	Total Penta-Furans	31.40	3.154e2	2.249e2	1.46	ND	0.065471	0.065473



200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191013 18.3 - PDI-076SC-B-00-02-191013

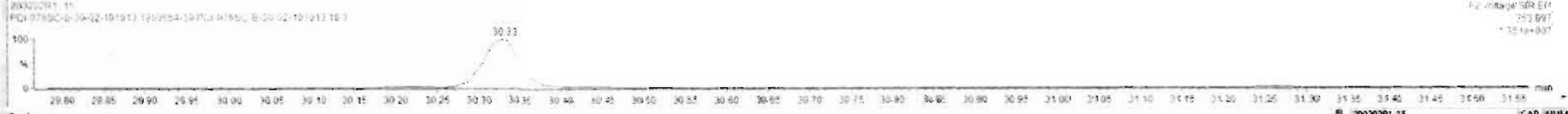
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.012			24.6		0.108	24.7

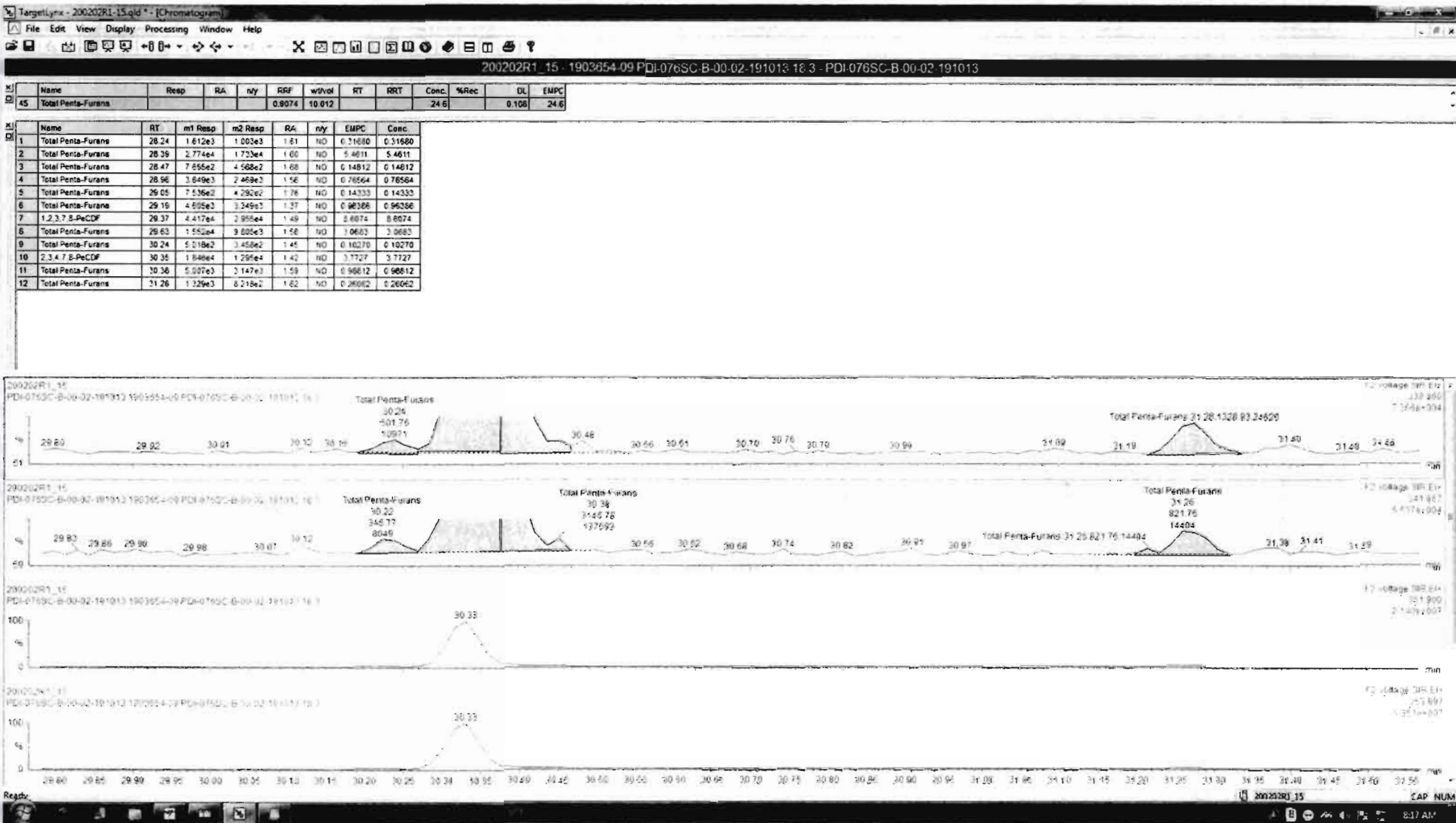
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.24	1.612e3	1.003e3	1.61	NO	0.31680	0.31680
2 Total Penta-Furans	28.39	2.774e4	1.733e4	1.60	NO	5.4611	5.4611
3 Total Penta-Furans	28.47	7.055e2	4.568e2	1.68	NO	0.14812	0.14812
4 Total Penta-Furans	28.98	3.849e3	2.469e3	1.56	NO	0.78564	0.78564
5 Total Penta-Furans	29.05	7.536e2	4.292e2	1.78	NO	0.14333	0.14333
6 Total Penta-Furans	29.19	4.805e3	3.349e3	1.37	NO	0.96386	0.96386
7 1,2,3,7,8-PeCDF	29.37	4.417e4	2.955e4	1.49	NO	8.6074	8.6074
8 Total Penta-Furans	29.63	1.552e4	9.605e3	1.58	NO	3.9683	3.9683
9 Total Penta-Furans	30.24	4.180e2	3.458e2	1.21	YES	0.08337	0.08000
10 2,3,4,7,8-PeCDF	30.35	2.386e4	1.612e4	1.48	NO	4.8007	4.8007
11 Total Penta-Furans	31.28	1.329e3	8.013e2	1.66	NO	0.25814	0.25814
12 Total Penta-Furans	31.46	3.154e2	2.249e2	1.40	NO	0.085473	0.085473



Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	Dt	EMPC
45	Total Penta-Furans			0.9074	10.012			24.6		0.1GB	24.6

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc	
1	Total Penta-Furans	28.24	1.612e3	1.003e3	1.61	NO	0.31680	0.31680
2	Total Penta-Furans	28.35	2.774e4	1.733e4	1.60	NO	5.4611	5.4611
3	Total Penta-Furans	28.47	7.655e2	4.588e2	1.68	NO	0.14812	0.14812
4	Total Penta-Furans	28.96	3.849e3	2.469e3	1.56	NO	0.76564	0.76564
5	Total Penta-Furans	29.05	7.536e2	4.292e2	1.78	NO	0.14333	0.14333
6	Total Penta-Furans	29.19	4.805e3	3.349e3	1.37	NO	0.96386	0.96386
7	1,2,3,7,8-PeCDF	29.37	4.417e4	2.955e4	1.49	NO	8.6074	8.6074
8	Total Penta-Furans	29.63	1.552e4	9.805e3	1.56	NO	3.0683	3.0683
9	Total Penta-Furans	30.24	5.018e2	3.458e2	1.45	NO	0.10270	0.10270
10	2,3,4,7,8-PeCDF	30.35	1.846e4	1.286e4	1.43	NO	3.7649	3.7649
11	Total Penta-Furans	30.38	5.007e3	3.061e3	1.64	NO	0.97773	0.97773
12	Total Penta-Furans	31.28	1.329e3	8.715e2	1.62	NO	0.26062	0.26062



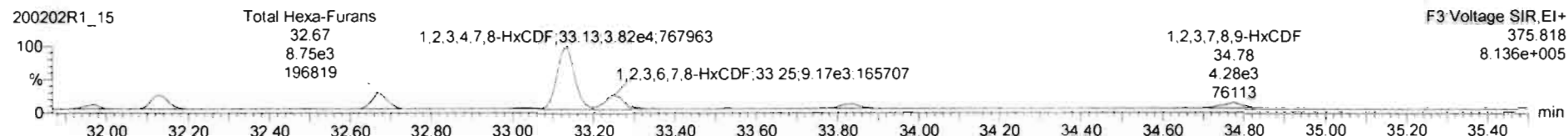
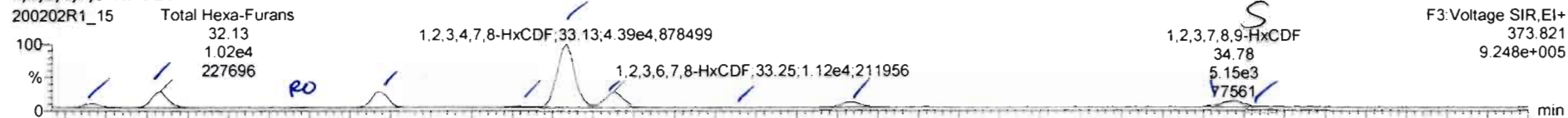


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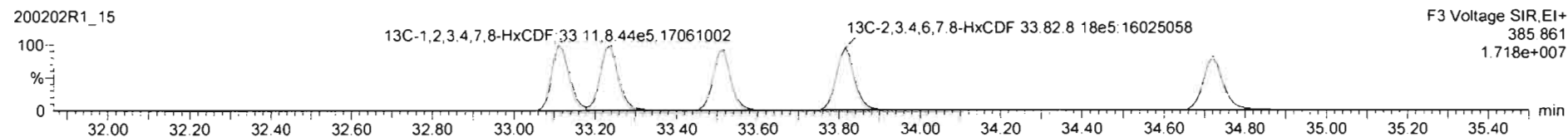
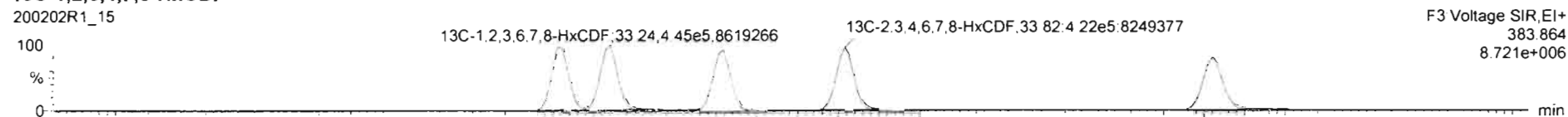
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Name: 200202R1_15, Date: 02-Feb-2020, Time: 21:21:52, ID: 1903654-09 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

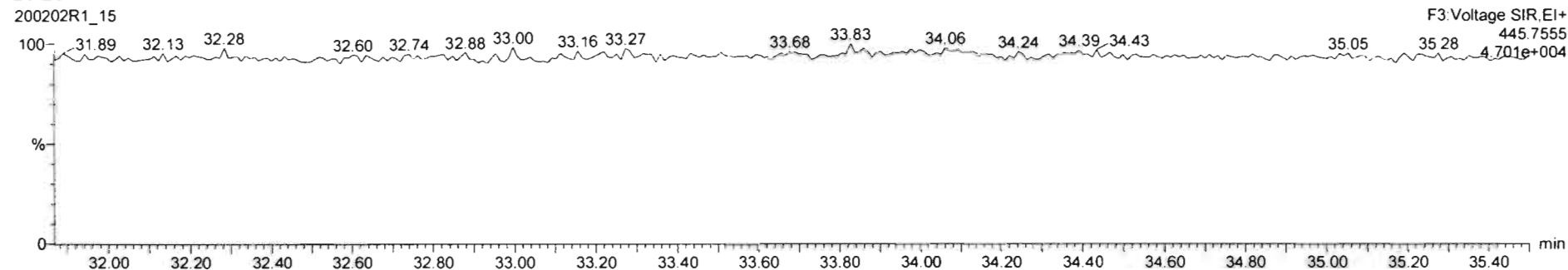
1,2,3,4,7,8-HxCDF

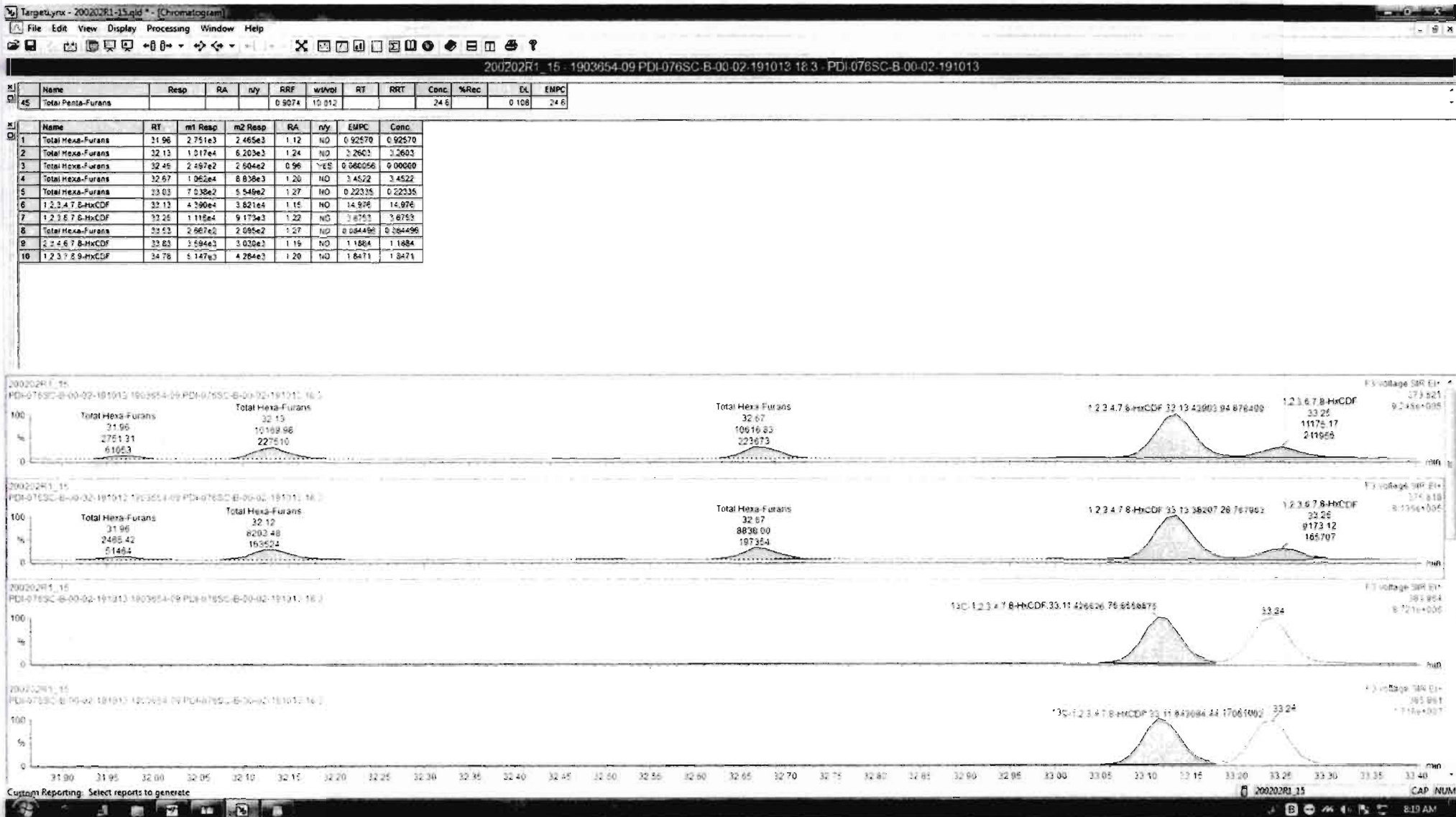


13C-1,2,3,4,7,8-HxCDF



DPE3

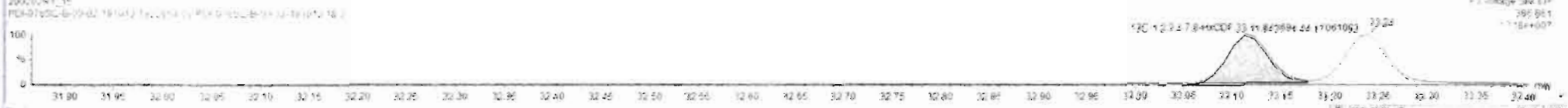




200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191013 18 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.912			24.6		0.108	24.6

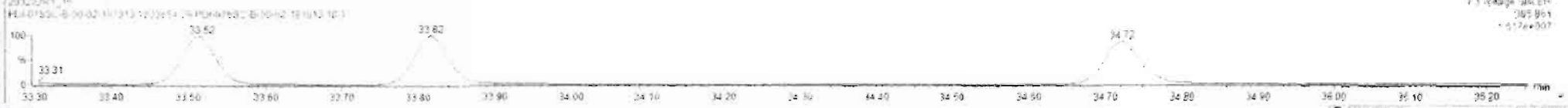
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	31.96	2.751e3	2.465e3	1.12	NO	0.92570	0.92570
2 Total Hexa-Furans	32.13	1.017e4	8.203e3	1.24	NO	3.2603	3.2603
3 Total Hexa-Furans	32.49	2.457e2	2.604e2	0.96	YES	0.060056	0.00000
4 Total Hexa-Furans	32.63	1.382e4	9.838e3	1.20	NO	3.4522	3.4522
5 Total Hexa-Furans	33.03	7.036e2	5.549e2	1.27	NO	0.22336	0.22336
6 1,2,3,4,7,8-HxCDF	33.13	4.200e4	3.821e4	1.15	NO	14.978	14.978
7 1,2,3,6,7,8-HxCDF	33.28	1.118e4	9.173e3	1.22	NO	3.6753	3.6753
8 Total Hexa-Furans	33.53	2.667e2	2.095e2	1.27	NO	0.084496	0.084496
9 2,3,4,6,7,8-HxCDF	33.83	1.584e3	3.030e3	1.19	NO	1.1884	1.1884
10 1,2,3,7,8,9-HxCDF	34.73	5.147e3	4.284e3	1.20	NO	1.8471	1.8471



200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191013 18 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	n/y	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
Total Penta-Furans				0.9074	10.012			24.6		0.106	24.6

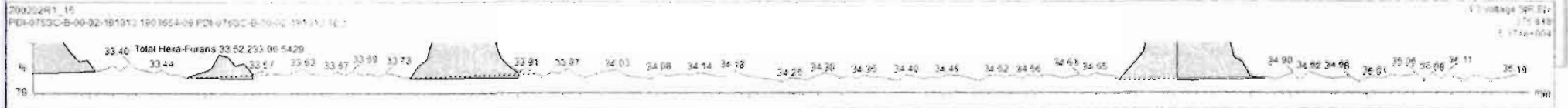
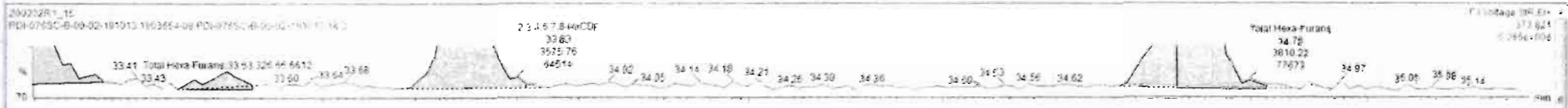
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	31.96	2.751e3	2.465e3	1.12	NO	0.92570	0.92570
2 Total Hexa-Furans	32.13	1.017e4	8.203e3	1.24	NO	3.2603	3.2603
3 Total Hexa-Furans	32.49	2.497e2	2.604e2	0.96	YES	0.060056	0.06000
4 Total Hexa-Furans	32.67	1.052e4	8.839e3	1.20	NO	3.4522	3.4522
5 Total Hexa-Furans	33.03	7.038e2	5.549e2	1.27	NO	0.22335	0.22335
6 1,2,3,4,7,8-HxCDF	33.12	4.360e4	3.821e4	1.15	NO	14.976	14.976
7 1,2,3,6,7,8-HxCDF	33.25	1.118e4	9.173e3	1.22	NO	3.6753	3.6753
8 Total Hexa-Furans	33.53	3.287e2	2.331e2	1.40	NO	0.099320	0.099320
9 2,3,4,6,7,8-HxCDF	33.83	3.576e3	3.073e3	1.16	NO	1.1929	1.1929
10 1,2,3,7,8,9-HxCDF	34.75	1.206e3	1.190e3	1.10	NO	0.48931	0.48931
11 Total Hexa-Furans	34.76	3.810e3	3.097e3	1.22	NO	1.2256	1.2256



200202R1_15 - 1903654-09 PDI-076SC-B-00-02-191012 16 3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
Total Penta-Furans				0.9074	13.012			24.6		0.108	24.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	31.96	2.751e3	2.465e3	1.12	NO	0.92570	0.92570
2 Total Hexa-Furans	32.13	1.017e4	8.203e3	1.24	NO	3.2603	3.2603
3 Total Hexa-Furans	32.49	2.497e2	2.504e2	0.96	ES	0.060056	0.00000
4 Total Hexa-Furans	32.67	1.062e4	8.838e3	1.20	NO	3.4522	3.4522
5 Total Hexa-Furans	33.03	7.038e2	5.549e2	1.27	NO	0.22336	0.22336
6 1,2,3,4,7,8-HxCDF	33.13	4.390e4	3.821e4	1.15	NO	14.976	14.976
7 1,2,3,6,7,8-HxCDF	33.25	1.118e4	9.173e3	1.22	NO	3.6753	3.6753
8 Total Hexa-Furans	33.53	3.267e2	2.331e2	1.40	NO	0.099320	0.099320
9 2,3,4,6,7,8-HxCDF	33.83	3.576e3	3.073e3	1.16	NO	1.1929	1.1929
10 1,2,3,7,8,9-HxCDF	34.75	1.306e3	1.150e3	1.10	NO	0.46931	0.46931
11 Total Hexa-Furans	34.78	3.610e3	3.097e3	1.23	NO	1.2256	1.2256



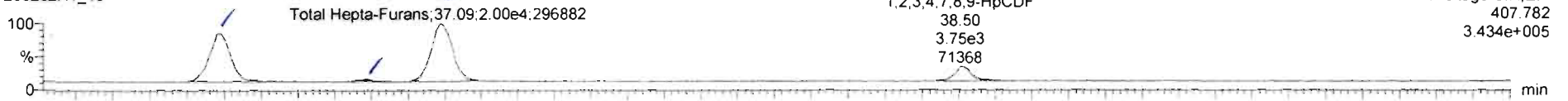
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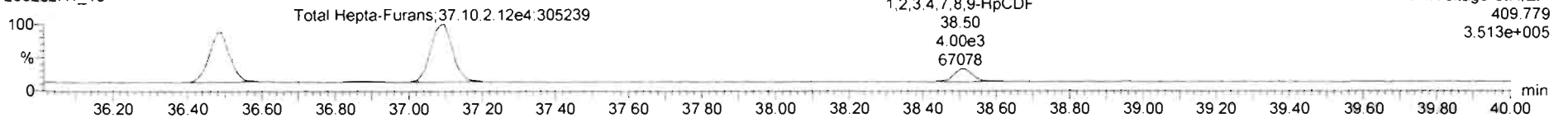
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200202R1_15

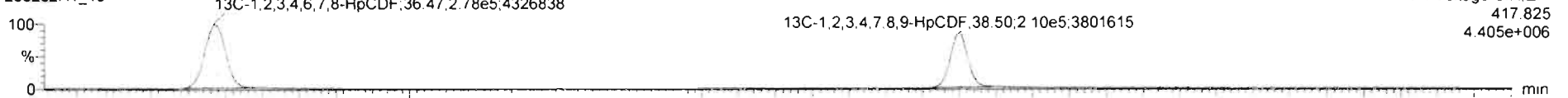


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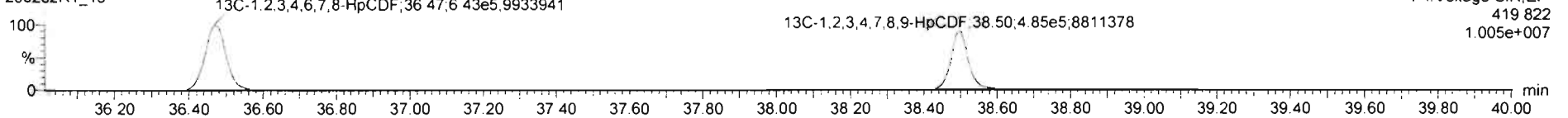


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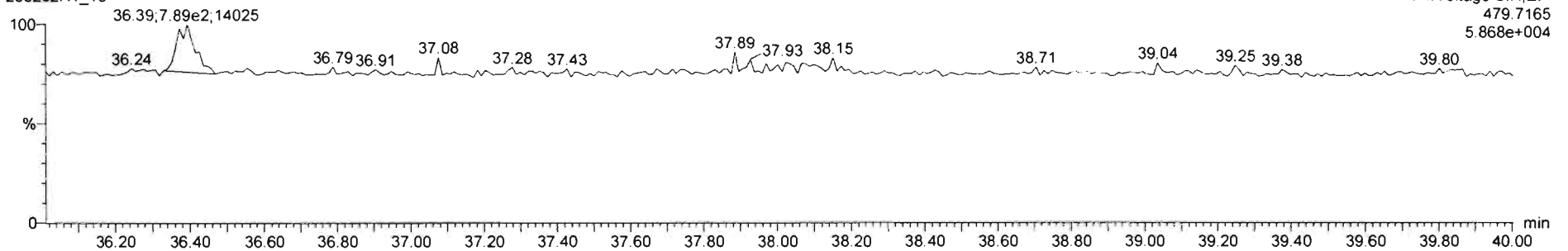


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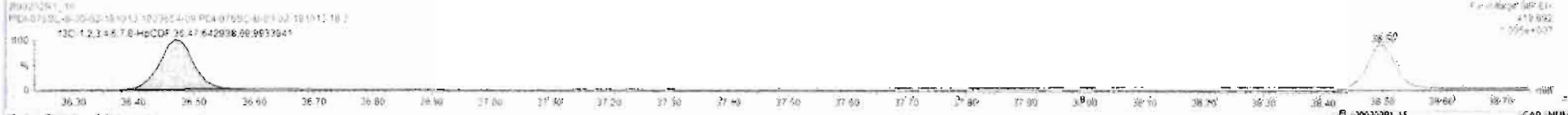
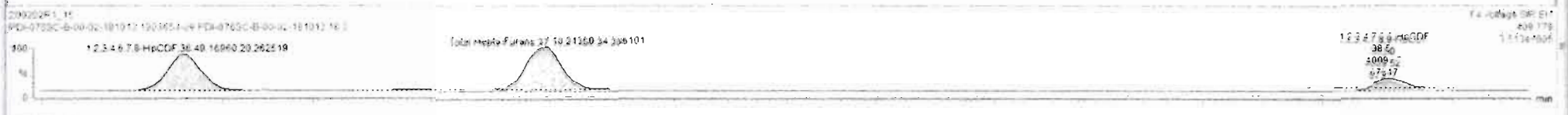
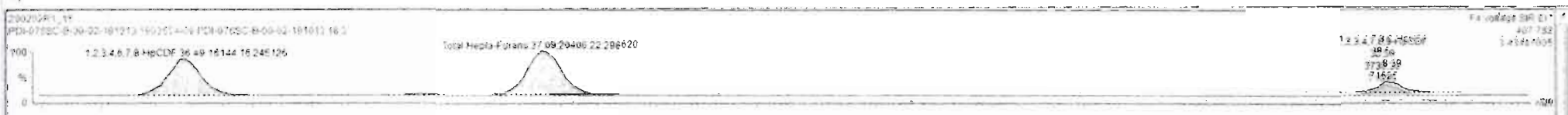
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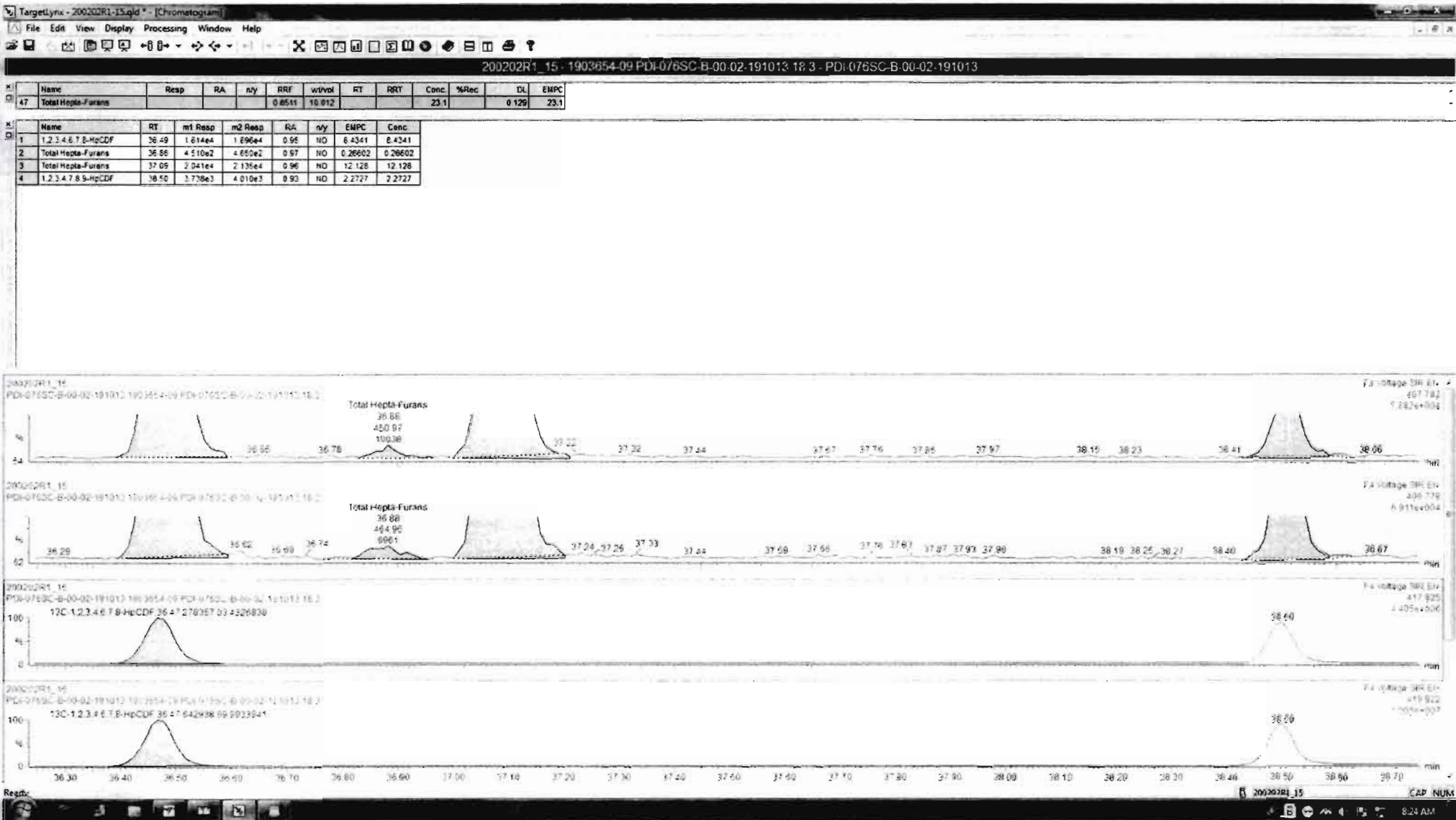


200202R1_15 1903654-09 PDI-076SC-B-00-02-191013 18.3 - PDI-076SC-B-00-02-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.8511	10.012			23.1		0.12%	23.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.49	1.614e4	1.696e4	0.95	NO	8.4341	8.4341
2 Total Hepta-Furans	36.88	4.510e2	4.650e2	0.97	NO	0.26602	0.26602
3 Total Hepta-Furans	37.09	2.341e4	2.135e4	0.96	NO	12.128	12.128
4 1,2,3,4,7,8,9-HpCDF	38.50	3.738e3	4.010e3	0.92	NO	2.2727	2.2727

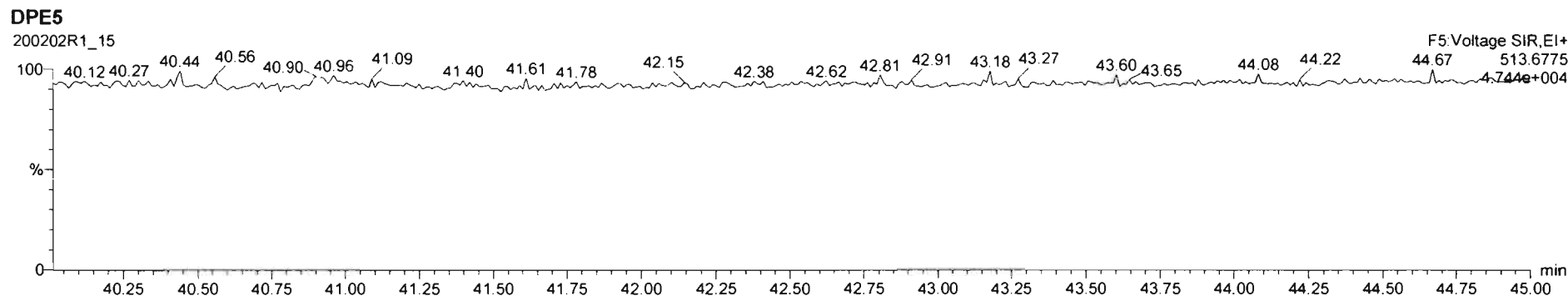
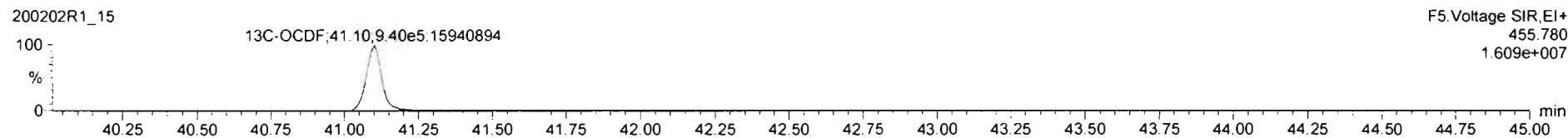
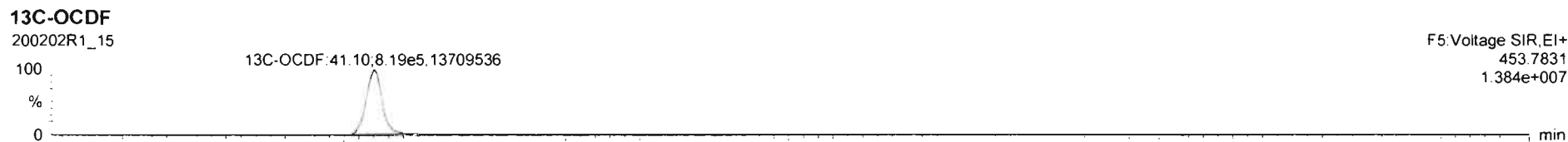
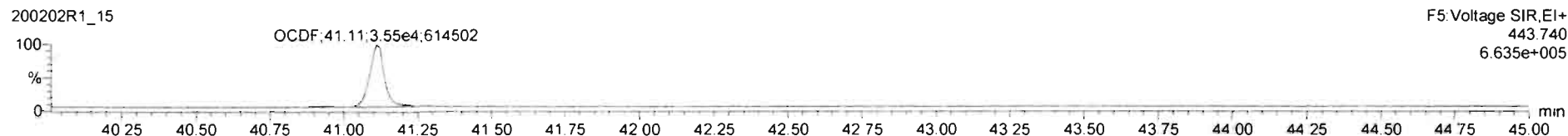
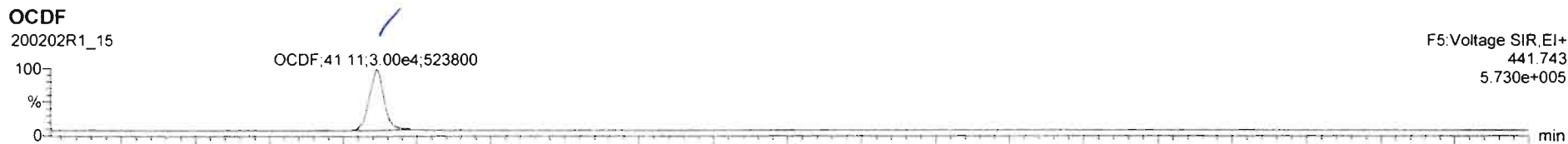




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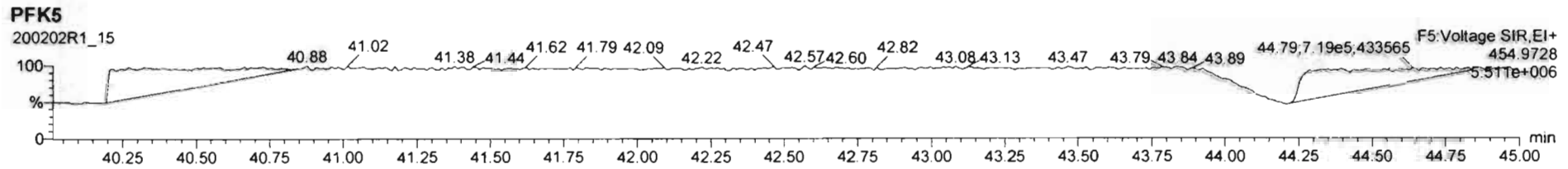
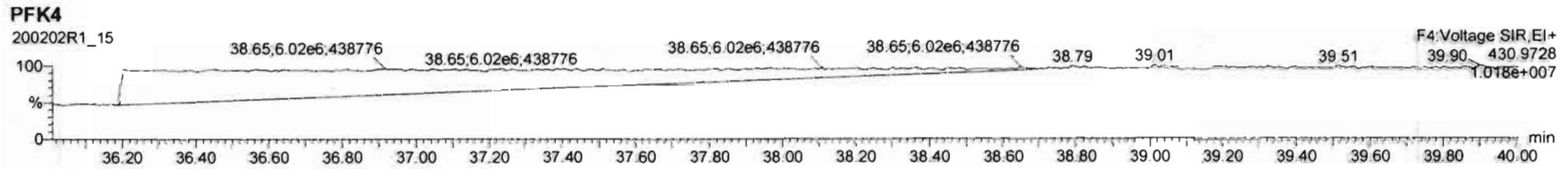
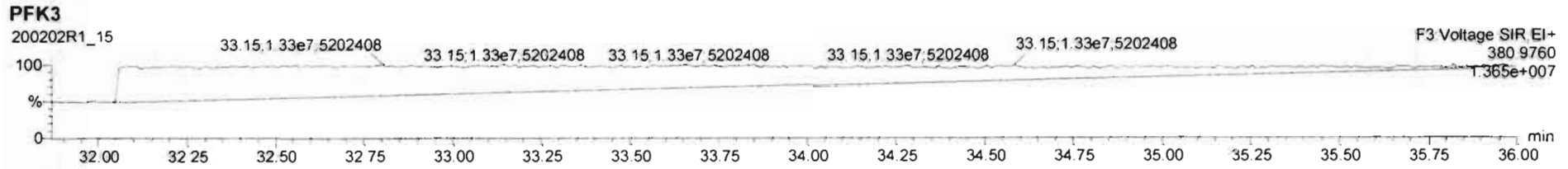
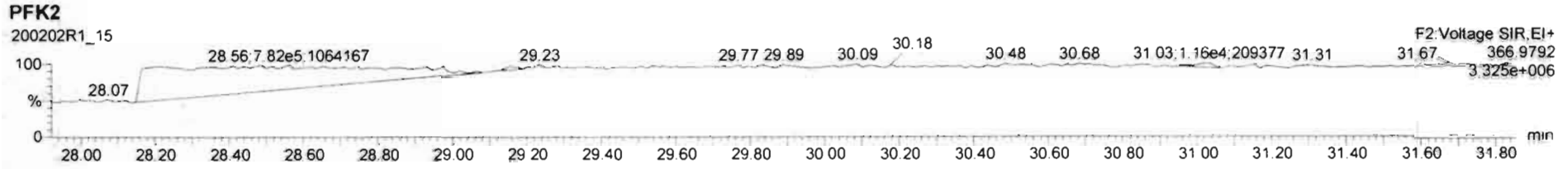
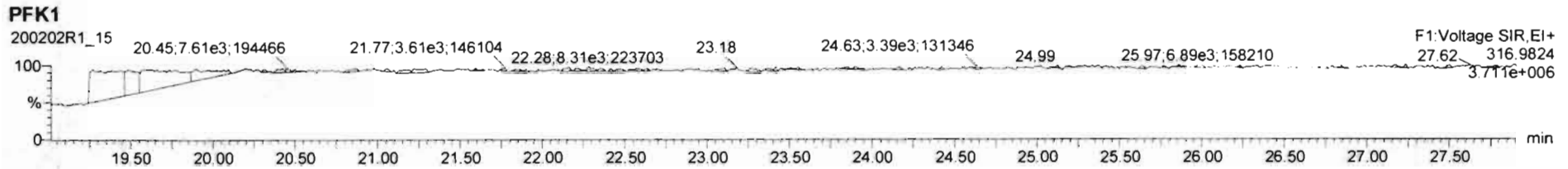


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Dataset: U:\VG12.PRO\Results\200202R2\200202R2-4.qld

Last Altered: Wednesday, February 12, 2020 11:27:36 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:28:31 Pacific Standard Time

GRB 02/12/2020

C1 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.40e3	0.69	NO	0.988	10.096	25.721	25.72	1.001	1.001	0.54155		0.0729	0.542
2	2 1,2,3,7,8-PeCDD	5.16e3	0.65	NO	0.972	10.096	30.642	30.65	1.001	1.001	0.78838		0.0764	0.788
3	3 1,2,3,4,7,8-HxCDD	4.00e3	1.37	NO	1.07	10.096	33.997	34.00	1.000	1.000	0.69708		0.122	0.697
4	4 1,2,3,6,7,8-HxCDD	2.58e4	1.18	NO	0.921	10.096	34.083	34.10	1.000	1.001	4.4423		0.131	4.44
5	5 1,2,3,7,8,9-HxCDD	1.10e4	1.29	NO	0.918	10.096	34.394	34.38	1.001	1.001	1.9918		0.142	1.99
6	6 1,2,3,4,6,7,8-HpCDD	3.97e5	1.03	NO	0.923	10.096	37.918	37.92	1.000	1.000	88.057		0.547	88.1
7	7 OCDD	3.81e6	0.88	NO	0.975	10.096	40.921	40.93	1.000	1.000	968.55		0.315	969
8	8 2,3,7,8-TCDF	3.25e5	0.75	NO	0.802	10.096	24.832	24.82	1.001	1.001	36.641	OK	0.106	36.6
9	9 1,2,3,7,8-PeCDF	5.05e5	1.52	NO	0.907	10.096	29.376	29.37	1.001	1.001	51.087		0.147	51.1
10	10 2,3,4,7,8-PeCDF	2.26e5	1.56	NO	0.952	10.096	30.361	30.35	1.001	1.001	22.846		0.138	22.8
11	11 1,2,3,4,7,8-HxCDF	5.56e5	1.17	NO	0.862	10.096	33.114	33.13	1.000	1.001	91.045		0.145	91.0
12	12 1,2,3,6,7,8-HxCDF	1.65e5	1.19	NO	0.841	10.096	33.252	33.25	1.000	1.000	25.312		0.144	25.3
13	13 2,3,4,6,7,8-HxCDF	3.77e4	1.16	NO	0.898	10.096	33.851	33.83	1.001	1.000	6.1379		0.154	6.14
14	14 1,2,3,7,8,9-HxCDF	1.08e4	1.06	NO	0.858	10.096	34.722	34.74	1.000	1.001	2.0635		0.201	2.06
15	15 1,2,3,4,6,7,8-HpCDF	2.26e5	0.96	NO	0.851	10.096	36.505	36.49	1.001	1.001	53.577		0.235	53.6
16	16 1,2,3,4,7,8,9-HpCDF	6.68e4	0.99	NO	0.980	10.096	38.503	38.51	1.000	1.000	18.728		0.247	18.7
17	17 OCDF	4.03e5	0.84	NO	0.806	10.096	41.102	41.12	1.000	1.001	108.79		0.168	109
18	18 13C-2,3,7,8-TCDD	1.63e6	0.79	NO	1.20	10.096	25.691	25.69	1.026	1.026	186.08	93.9	0.213	
19	19 13C-1,2,3,7,8-PeCDD	1.33e6	0.64	NO	0.967	10.096	30.432	30.62	1.215	1.223	189.00	95.4	0.215	
20	20 13C-1,2,3,4,7,8-HxCDD	1.06e6	1.26	NO	0.874	10.096	33.977	33.99	1.014	1.014	174.93	88.3	0.234	
21	21 13C-1,2,3,6,7,8-HxCDD	1.25e6	1.28	NO	1.05	10.096	34.078	34.08	1.017	1.017	172.29	87.0	0.196	
22	22 13C-1,2,3,7,8,9-HxCDD	1.19e6	1.26	NO	0.974	10.096	34.379	34.36	1.026	1.025	176.34	89.0	0.210	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.67e5	1.03	NO	0.747	10.096	37.931	37.91	1.132	1.131	186.52	94.2	0.413	
24	24 13C-OCDD	1.60e6	0.90	NO	0.707	10.096	40.813	40.92	1.218	1.221	326.37	82.4	0.314	
25	25 13C-2,3,7,8-TCDF	2.19e6	0.77	NO	1.07	10.096	24.872	24.81	0.993	0.990	175.37	88.5	0.235	
26	26 13C-1,2,3,7,8-PeCDF	2.16e6	1.58	NO	1.00	10.096	29.205	29.35	1.166	1.172	183.74	92.7	0.249	
27	27 13C-2,3,4,7,8-PeCDF	2.06e6	1.59	NO	0.962	10.096	30.157	30.33	1.204	1.211	182.53	92.1	0.259	
28	28 13C-1,2,3,4,7,8-HxCDF	1.40e6	0.51	NO	1.05	10.096	33.106	33.11	0.988	0.988	192.84	97.3	0.389	
29	29 13C-1,2,3,6,7,8-HxCDF	1.53e6	0.51	NO	1.19	10.096	33.206	33.24	0.991	0.992	185.38	93.6	0.343	
30	30 13C-2,3,4,6,7,8-HxCDF	1.35e6	0.51	NO	1.07	10.096	33.813	33.82	1.009	1.009	183.00	92.4	0.383	
31	31 13C-1,2,3,7,8,9-HxCDF	1.20e6	0.51	NO	0.922	10.096	34.714	34.72	1.036	1.036	188.24	95.0	0.442	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-4.qld

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Printed: Wednesday, February 12, 2020 11:28:31 Pacific Standard Time

Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.82e5	0.43	NO	0.767	10.096	36.457	36.47	1.088	1.088	184.49	93.1	0.463	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.21e5	0.43	NO	0.552	10.096	38.467	38.50	1.148	1.149	188.27	95.0	0.643	
34	34 13C-OCDF	1.82e6	0.88	NO	0.789	10.096	41.047	41.10	1.225	1.227	332.76	84.0	0.272	
35	35 37Cl-2,3,7,8-TCDD	6.63e5			1.18	10.096	25.723	25.70	1.027	1.026	77.173	97.4	0.0524	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.79	NO	1.00	10.096	25.080	25.05	1.000	1.000	198.10	100	0.256	
37	37 13C-1,2,3,4-TCDF	2.32e6	0.80	NO	1.00	10.096	23.420	23.39	1.000	1.000	198.10	100	0.250	
38	38 13C-1,2,3,4,6,9-HxCDF	1.37e6	0.50	NO	1.00	10.096	33.520	33.51	1.000	1.000	198.10	100	0.408	
39	39 Total Tetra-Dioxins				0.988	10.096	24.620		0.000		4.4103		0.0729	4.56
40	40 Total Penta-Dioxins				0.972	10.096	29.960		0.000		6.5817		0.0764	6.58
41	41 Total Hexa-Dioxins				0.921	10.096	33.635		0.000		38.088		0.138	38.1
42	42 Total Hepta-Dioxins				0.923	10.096	37.640		0.000		192.38		0.547	192
43	43 Total Tetra-Furans				0.802	10.096	23.610		0.000		115.24		0.106	119
44	44 1st Func. Penta-Furans				0.907	10.096	27.090		0.000		7.8694		0.0350	7.87
45	45 Total Penta-Furans				0.907	10.096	29.275		0.000		128.71		0.146	132
46	46 Total Hexa-Furans				0.898	10.096	33.555		0.000		166.19		0.153	166
47	47 Total Hepta-Furans				0.851	10.096	37.835		0.000		127.38		0.256	127

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Last Altered: Wednesday, February 12, 2020 11:27:36 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:28:31 Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.74	4.771e4	5.993e4	4.328e3	5.485e3	0.79	NO	9.813e3	1.2087	1.2087	0.0729
2	Total Tetra-Dioxins	22.16	2.407e4	2.586e4	2.227e3	2.622e3	0.85	NO	4.848e3	0.59719	0.59719	0.0729
3	Total Tetra-Dioxins	22.67	6.089e3	7.294e3	5.229e2	6.996e2	0.75	NO	0.000e0	0.00000	0.15059	0.0729
4	Total Tetra-Dioxins	23.55	6.130e3	6.523e3	4.220e2	5.016e2	0.84	NO	9.237e2	0.11378	0.11378	0.0729
5	Total Tetra-Dioxins	23.81	1.479e4	1.843e4	1.095e3	1.315e3	0.83	NO	2.410e3	0.29686	0.29686	0.0729
6	Total Tetra-Dioxins	24.03	1.333e4	1.843e4	1.171e3	1.519e3	0.77	NO	2.690e3	0.33133	0.33133	0.0729
7	Total Tetra-Dioxins	24.21	4.212e3	5.149e3	2.852e2	3.582e2	0.80	NO	6.434e2	0.079248	0.079248	0.0729
8	Total Tetra-Dioxins	24.51	6.414e3	7.897e3	4.643e2	5.528e2	0.84	NO	1.017e3	0.12528	0.12528	0.0729
9	Total Tetra-Dioxins	24.64	5.627e3	8.431e3	4.265e2	5.658e2	0.75	NO	9.923e2	0.12223	0.12223	0.0729
10	Total Tetra-Dioxins	25.45	3.900e4	5.311e4	3.162e3	3.906e3	0.81	NO	7.067e3	0.87052	0.87052	0.0729
11	2,3,7,8-TCDD	25.72	2.319e4	4.152e4	1.790e3	2.606e3	0.69	NO	4.397e3	0.54155	0.54155	0.0729
12	Total Tetra-Dioxins	26.02	6.876e3	8.110e3	4.591e2	5.447e2	0.84	NO	1.004e3	0.12364	0.12364	0.0729

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.44	7.021e4	8.543e4	4.965e3	7.055e3	0.70	NO	1.202e4	1.8366	1.8366	0.0764
2	Total Penta-Dioxins	28.91	2.050e4	3.051e4	1.020e3	1.545e3	0.66	NO	2.565e3	0.39192	0.39192	0.0764
3	Total Penta-Dioxins	29.40	4.457e4	7.963e4	2.291e3	4.246e3	0.54	NO	6.536e3	0.99878	0.99878	0.0764
4	Total Penta-Dioxins	29.57	4.523e4	5.886e4	1.911e3	2.889e3	0.66	NO	4.800e3	0.73346	0.73346	0.0764
5	Total Penta-Dioxins	29.66	2.445e4	3.530e4	9.875e2	1.796e3	0.55	NO	2.783e3	0.42532	0.42532	0.0764
6	Total Penta-Dioxins	29.87	2.343e4	3.529e4	2.050e3	2.923e3	0.70	NO	4.973e3	0.75987	0.75987	0.0764
7	Total Penta-Dioxins	30.21	1.429e4	2.234e4	5.699e2	9.703e2	0.59	NO	1.540e3	0.23534	0.23534	0.0764
8	1,2,3,7,8-PeCDD	30.65	3.875e4	6.012e4	2.030e3	3.129e3	0.65	NO	5.159e3	0.78838	0.78838	0.0764
9	Total Penta-Dioxins	30.70	8.512e3	1.576e4	5.590e2	9.158e2	0.61	NO	1.475e3	0.22534	0.22534	0.0764
10	Total Penta-Dioxins	31.02	1.116e4	1.369e4	5.132e2	7.084e2	0.72	NO	1.222e3	0.18666	0.18666	0.0764

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Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	7.540e5	5.776e5	3.562e4	2.918e4	1.22	NO	6.481e4	11.937	11.937	0.138
2	Total Hexa-Dioxins	33.06	8.813e4	7.635e4	4.516e3	3.770e3	1.20	NO	8.287e3	1.5264	1.5264	0.138
3	Total Hexa-Dioxins	33.32	7.601e5	5.978e5	5.009e4	3.953e4	1.27	NO	8.961e4	16.506	16.506	0.138
4	Total Hexa-Dioxins	33.42	3.233e4	2.346e4	1.665e3	1.361e3	1.22	NO	3.026e3	0.55733	0.55733	0.138
5	1,2,3,4,7,8-HxCDD	34.00	4.311e4	3.304e4	2.314e3	1.683e3	1.37	NO	3.996e3	0.69708	0.69708	0.122
6	1,2,3,6,7,8-HxCDD	34.10	2.498e5	2.231e5	1.398e4	1.184e4	1.18	NO	2.582e4	4.4423	4.4423	0.131
7	Total Hexa-Dioxins	34.28	2.376e4	2.165e4	1.260e3	1.074e3	1.17	NO	2.333e3	0.42982	0.42982	0.138
8	1,2,3,7,8,9-HxCDD	34.38	1.111e5	8.492e4	6.192e3	4.813e3	1.29	NO	1.101e4	1.9918	1.9918	0.142

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.87	3.464e6	3.404e6	2.351e5	2.350e5	1.00	NO	4.700e5	104.32	104.32	0.547
2	1,2,3,4,6,7,8-HpCDD	37.92	2.958e6	2.876e6	2.016e5	1.951e5	1.03	NO	3.967e5	88.057	88.057	0.547

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Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.66	1.766e4	2.031e4	1.430e3	1.712e3	0.83	NO	3.142e3	0.35443	0.35443	0.106
2	Total Tetra-Furans	20.17	3.831e4	5.160e4	3.383e3	4.402e3	0.77	NO	7.785e3	0.87816	0.87816	0.106
3	Total Tetra-Furans	20.77	4.489e5	5.976e5	3.861e4	5.273e4	0.73	NO	9.134e4	10.302	10.302	0.106
4	Total Tetra-Furans	21.31	6.664e4	9.320e4	9.513e3	1.275e4	0.75	NO	2.226e4	2.5109	2.5109	0.106
5	Total Tetra-Furans	21.72	3.962e5	4.946e5	3.573e4	4.729e4	0.76	NO	8.302e4	9.3644	9.3644	0.106
6	Total Tetra-Furans	22.19	1.257e5	1.714e5	1.276e4	1.640e4	0.78	NO	2.917e4	3.2901	3.2901	0.106
7	Total Tetra-Furans	22.37	2.870e4	3.575e4	2.451e3	3.422e3	0.72	NO	5.873e3	0.66247	0.66247	0.106
8	Total Tetra-Furans	22.56	8.024e4	1.036e5	6.947e3	1.019e4	0.68	NO	1.713e4	1.9328	1.9328	0.106
9	Total Tetra-Furans	23.00	1.748e4	1.845e4	1.232e3	1.659e3	0.74	NO	2.890e3	0.32601	0.32601	0.106
10	Total Tetra-Furans	23.12	2.277e4	2.465e4	1.659e3	2.157e3	0.77	NO	3.816e3	0.43048	0.43048	0.106
11	Total Tetra-Furans	23.31	1.082e5	1.492e5	7.484e3	8.700e3	0.86	NO	1.618e4	1.8255	1.8255	0.106
12	Total Tetra-Furans	23.40	2.351e5	3.143e5	2.209e4	3.235e4	0.68	NO	5.444e4	6.1410	6.1410	0.106
13	Total Tetra-Furans	23.89	1.558e6	2.084e6	1.213e5	1.637e5	0.74	NO	2.850e5	32.150	32.150	0.106
14	Total Tetra-Furans	24.18	5.598e4	8.832e4	4.617e3	6.250e3	0.74	NO	1.087e4	1.2257	1.2257	0.106
15	Total Tetra-Furans	24.39	1.508e4	2.582e4	1.610e3	2.233e3	0.72	NO	3.844e3	0.43355	0.43355	0.106
16	Total Tetra-Furans	24.60	2.356e4	3.813e4	1.198e3	1.757e3	0.68	NO	2.955e3	0.33333	0.33333	0.106
17	Total Tetra-Furans	24.72	2.255e5	3.151e5	1.431e4	1.923e4	0.74	NO	3.354e4	3.7837	3.7837	0.106
18	2,3,7,8-TCDF	24.82	1.864e6	2.544e6	1.396e5	1.852e5	0.75	NO	3.248e5	36.641	36.641	0.106
19	Total Tetra-Furans	25.20	1.115e5	1.512e5	8.551e3	1.105e4	0.77	NO	1.960e4	2.2106	2.2106	0.106
20	Total Tetra-Furans	25.44	2.221e4	3.226e4	1.324e3	1.739e3	0.76	NO	3.062e3	0.34543	0.34543	0.106
21	Total Tetra-Furans	26.35	4.265e3	7.810e3	3.129e2	3.468e2	0.90	YES	0.000e0	0.00000	0.069230	0.106
22	Total Tetra-Furans	26.51	6.506e3	9.133e3	3.984e2	5.051e2	0.79	NO	9.035e2	0.10191	0.10191	0.106
23	Total Tetra-Furans	26.81	2.656e5	2.692e5	1.656e4	1.757e4	0.94	YES	0.000e0	0.00000	3.5087	0.106

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.80	7.331e5	4.637e5	4.659e4	2.937e4	1.59	NO	7.596e4	7.8694	7.8694	0.0350

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.24	1.209e5	7.468e4	7.336e3	4.666e3	1.57	NO	1.200e4	1.2433	1.2433	0.146
2	Total Penta-Furans	28.38	2.303e6	1.563e6	1.558e5	9.836e4	1.58	NO	2.541e5	26.326	26.326	0.146
3	Total Penta-Furans	28.96	2.558e5	1.690e5	1.507e4	9.857e3	1.53	NO	0.000e0	0.00000	2.5817	0.146
4	Total Penta-Furans	29.00	8.026e4	4.655e4	4.156e3	2.645e3	1.57	NO	0.000e0	0.00000	0.70453	0.146
5	Total Penta-Furans	29.17	5.754e5	3.853e5	3.053e4	1.999e4	1.53	NO	5.052e4	5.2334	5.2334	0.146
6	1,2,3,7,8-PeCDF	29.37	5.381e6	3.535e6	3.046e5	2.002e5	1.52	NO	5.048e5	51.087	51.087	0.147
7	Total Penta-Furans	29.63	1.757e6	1.157e6	8.769e4	5.999e4	1.46	NO	1.477e5	15.299	15.299	0.146
8	Total Penta-Furans	30.13	1.488e4	7.978e3	6.086e2	4.077e2	1.49	NO	1.016e3	0.10529	0.10529	0.146
9	Total Penta-Furans	30.23	5.072e4	4.305e4	2.532e3	1.841e3	1.38	NO	4.374e3	0.45310	0.45310	0.146
10	2,3,4,7,8-PeCDF	30.35	2.633e6	1.651e6	1.376e5	8.824e4	1.56	NO	2.258e5	22.846	22.846	0.138
11	Total Penta-Furans	30.38	1.256e6	7.831e5	2.826e4	1.732e4	1.63	NO	4.558e4	4.7221	4.7221	0.146
12	Total Penta-Furans	31.28	1.554e5	1.070e5	8.217e3	5.260e3	1.56	NO	1.348e4	1.3961	1.3961	0.146

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.96	2.913e5	2.251e5	1.337e4	1.129e4	1.18	NO	2.466e4	3.9613	3.9613	0.153
2	Total Hexa-Furans	32.12	1.031e6	9.225e5	5.088e4	4.387e4	1.16	NO	9.475e4	15.219	15.219	0.153
3	Total Hexa-Furans	32.49	2.961e4	2.268e4	1.314e3	1.109e3	1.18	NO	2.423e3	0.38920	0.38920	0.153
4	Total Hexa-Furans	32.68	9.434e5	7.778e5	4.501e4	3.822e4	1.18	NO	8.322e4	13.368	13.368	0.153
5	Total Hexa-Furans	33.03	6.717e4	5.360e4	3.507e3	2.798e3	1.25	NO	6.305e3	1.0127	1.0127	0.153
6	1,2,3,4,7,8-HxCDF	33.13	5.623e6	4.839e6	2.995e5	2.568e5	1.17	NO	5.563e5	91.045	91.045	0.145
7	1,2,3,6,7,8-HxCDF	33.25	1.651e6	1.356e6	8.928e4	7.525e4	1.19	NO	1.645e5	25.312	25.312	0.144
8	Total Hexa-Furans	33.52	3.002e4	2.611e4	1.339e3	1.196e3	1.12	NO	2.534e3	0.40710	0.40710	0.153
9	2,3,4,6,7,8-HxCDF	33.83	3.782e5	3.252e5	2.020e4	1.747e4	1.16	NO	3.767e4	6.1379	6.1379	0.154
10	1,2,3,7,8,9-HxCDF	34.74	2.502e5	2.194e5	5.546e3	5.217e3	1.06	NO	1.076e4	2.0635	2.0635	0.201
11	Total Hexa-Furans	34.78	4.683e5	3.663e5	2.504e4	2.022e4	1.24	NO	4.526e4	7.2707	7.2707	0.153

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.49	1.643e6	1.709e6	1.106e5	1.154e5	0.96	NO	2.260e5	53.577	53.577	0.235
2	Total Hepta-Furans	36.88	3.749e4	3.786e4	2.396e3	2.310e3	1.04	NO	4.706e3	1.2862	1.2862	0.256
3	Total Hepta-Furans	37.09	1.361e6	1.386e6	9.764e4	9.916e4	0.98	NO	1.968e5	53.785	53.785	0.256
4	1,2,3,4,7,8,9-HpCDF	38.51	5.906e5	5.764e5	3.326e4	3.357e4	0.99	NO	6.683e4	18.728	18.728	0.247

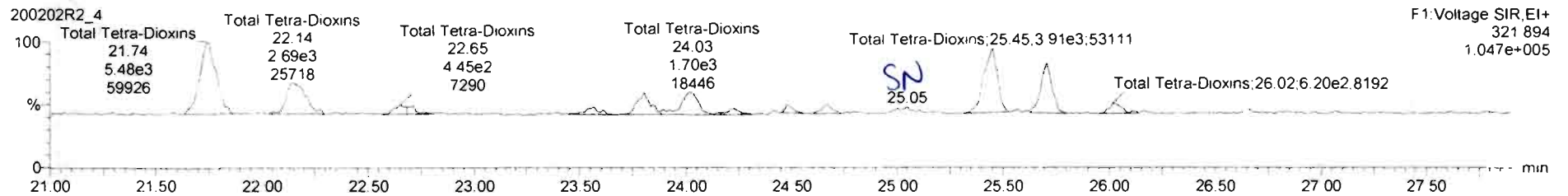
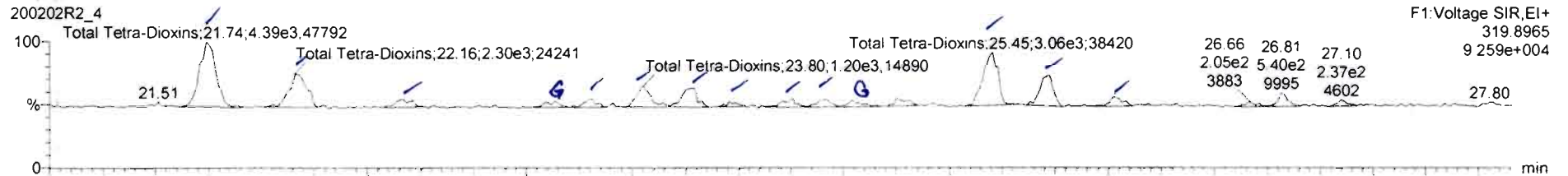
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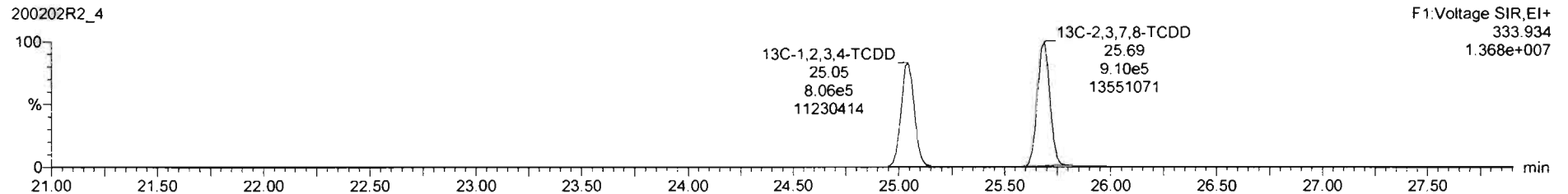
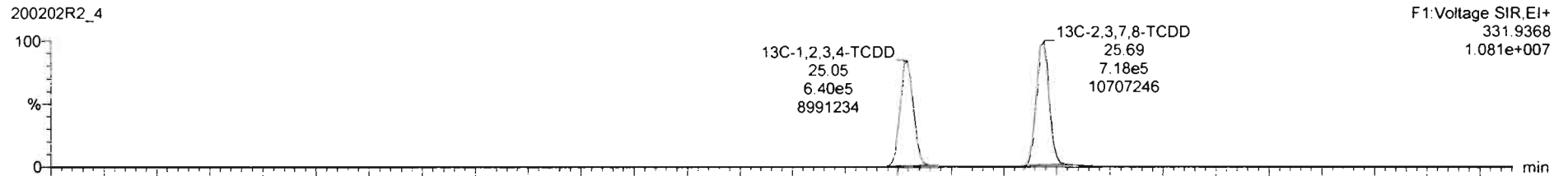
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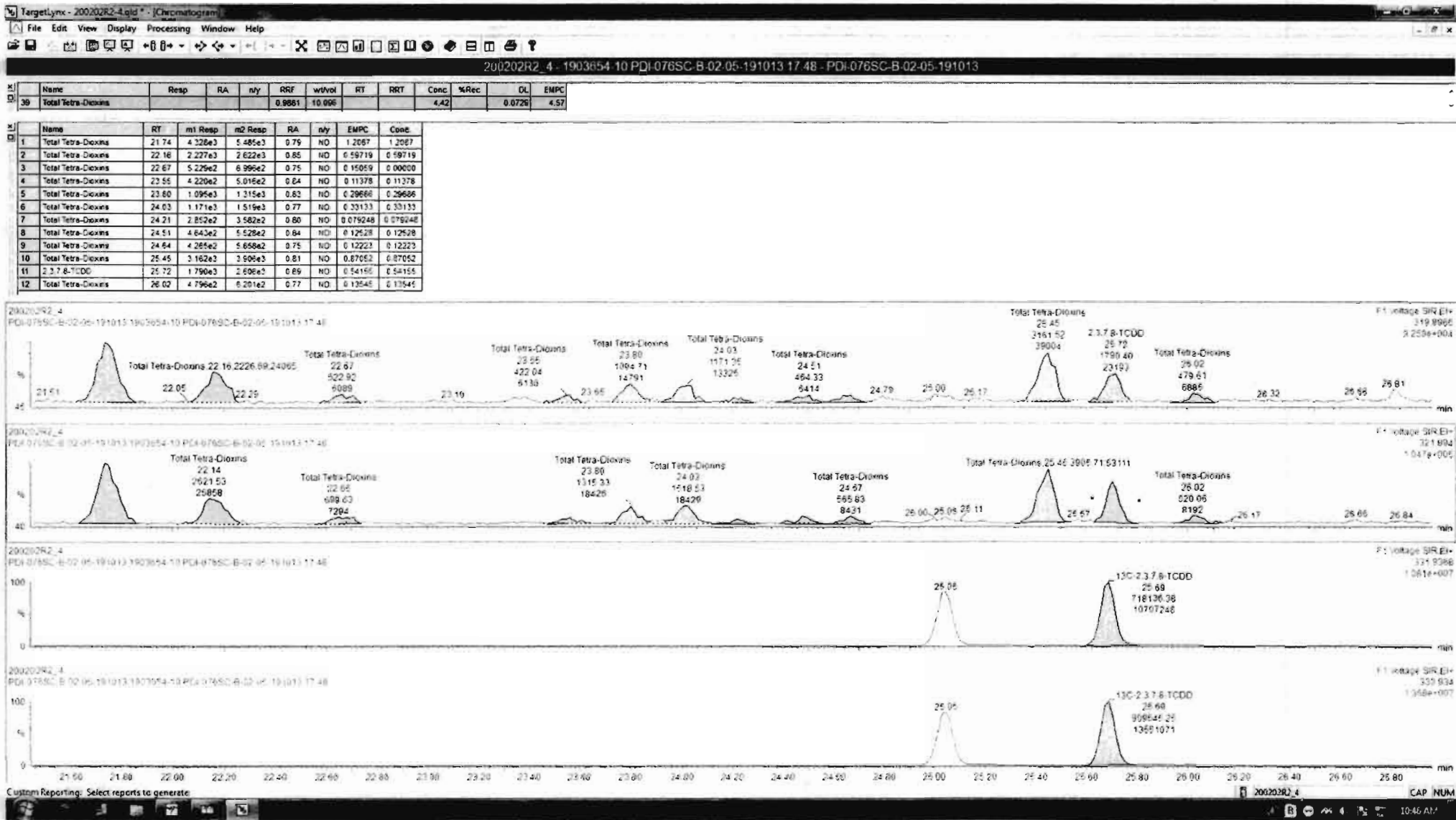
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD

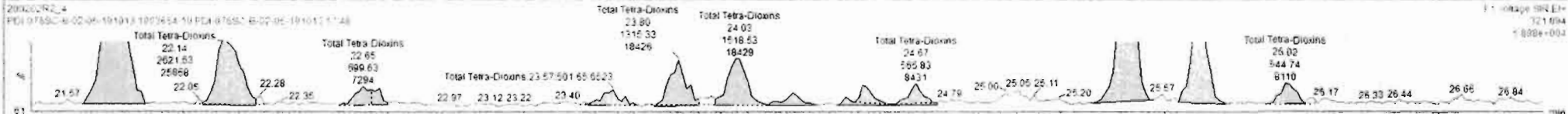
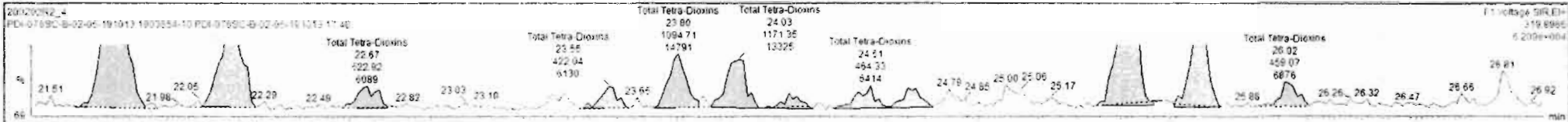




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Name	Resp	RA	nly	RRF	wtdval	RT	RRT	Conc	%Rec	DL	EMPC
Total Tetra-Dioxins				0.8981	10.996			4.41		0.0729	4.58

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.74	4.126e3	5.485e3	0.75	NO	1.2067	1.2067
2 Total Tetra-Dioxins	22.16	2.227e3	2.622e3	0.85	NO	0.59719	0.59719
3 Total Tetra-Dioxins	22.57	5.229e2	6.996e2	0.75	NO	0.15059	0.00000
4 Total Tetra-Dioxins	22.55	4.220e2	5.018e2	0.84	NO	0.11378	0.11378
5 Total Tetra-Dioxins	23.50	1.095e3	1.315e3	0.82	NO	0.29686	0.29686
6 Total Tetra-Dioxins	24.03	1.171e3	1.519e3	0.77	NO	0.33133	0.33133
7 Total Tetra-Dioxins	24.21	2.852e2	3.582e2	0.80	NO	0.079248	0.079248
8 Total Tetra-Dioxins	24.51	4.643e2	5.528e2	0.84	NO	0.12528	0.12528
9 Total Tetra-Dioxins	24.64	4.285e2	5.658e2	0.75	NO	0.12223	0.12223
10 Total Tetra-Dioxins	25.45	3.162e3	3.906e3	0.81	NO	0.87052	0.87052
11 2,3,7,8-TCDD	25.72	1.799e3	2.605e3	0.69	NO	0.54155	0.54155
12 Total Tetra-Dioxins	26.02	4.591e2	5.447e2	0.84	NO	0.12364	0.12364



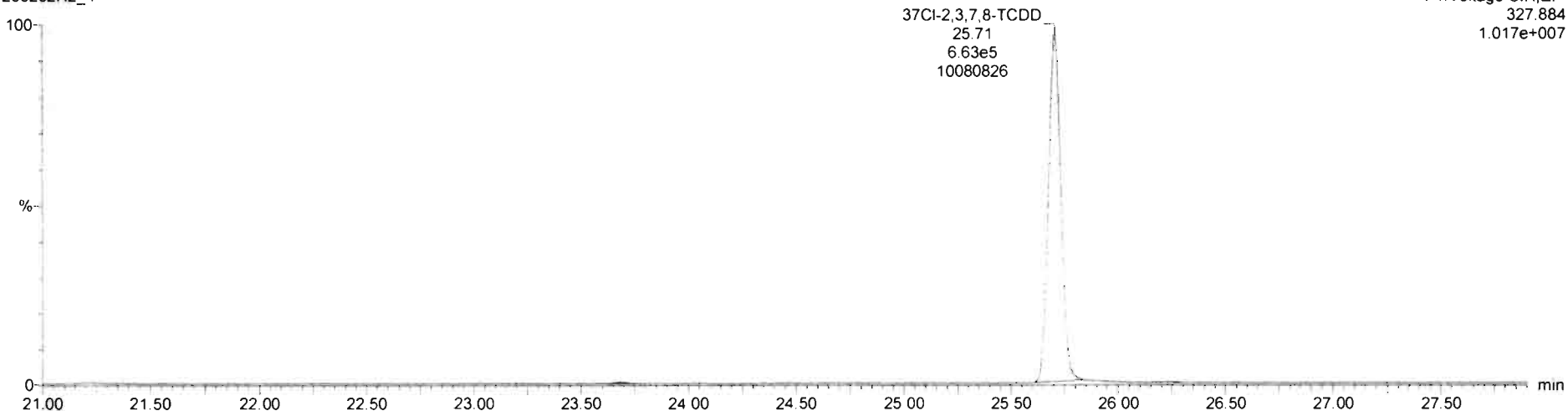
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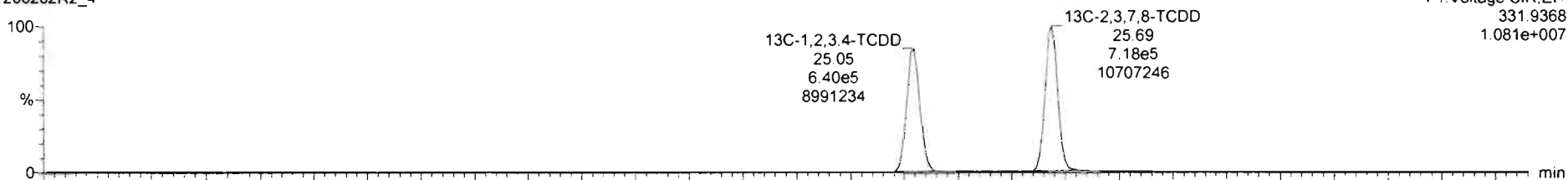
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200202R2_4

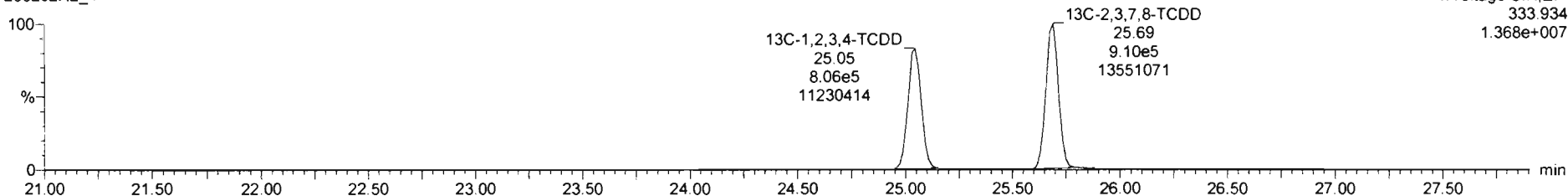


13C-1,2,3,4-TCDD

200202R2_4



200202R2_4



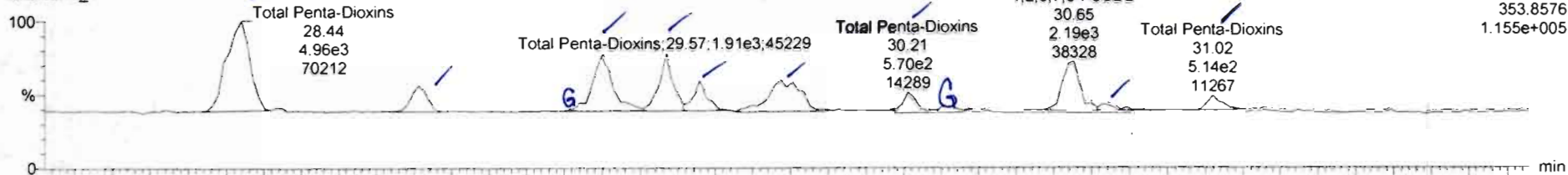
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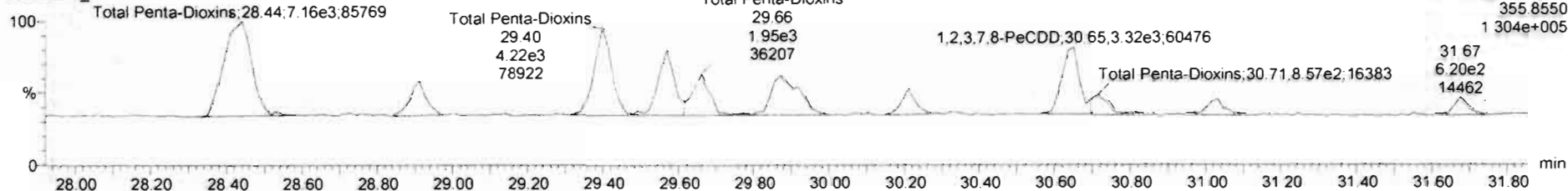
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1,2,3,7,8-PeCDD

200202R2_4

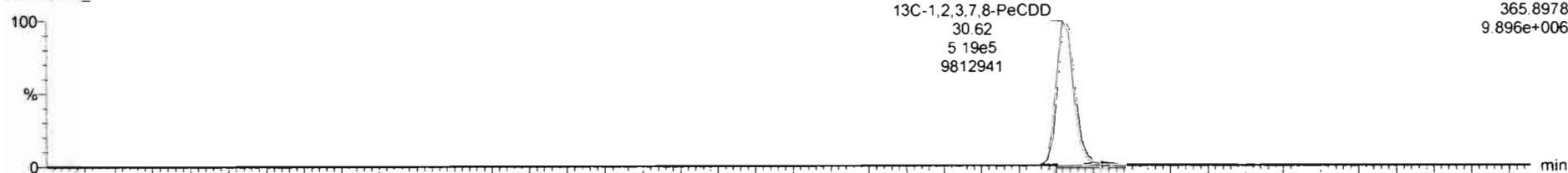


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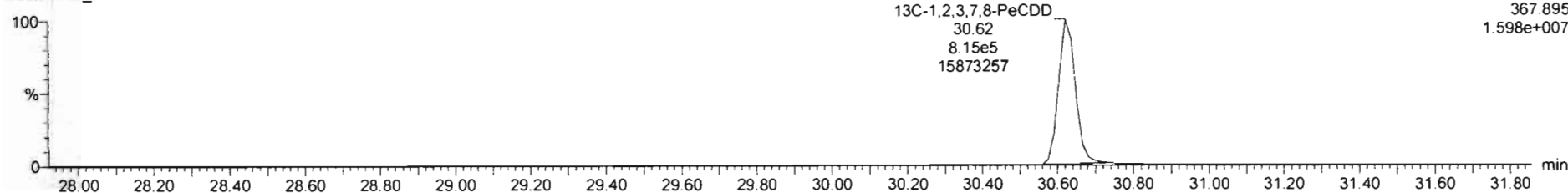


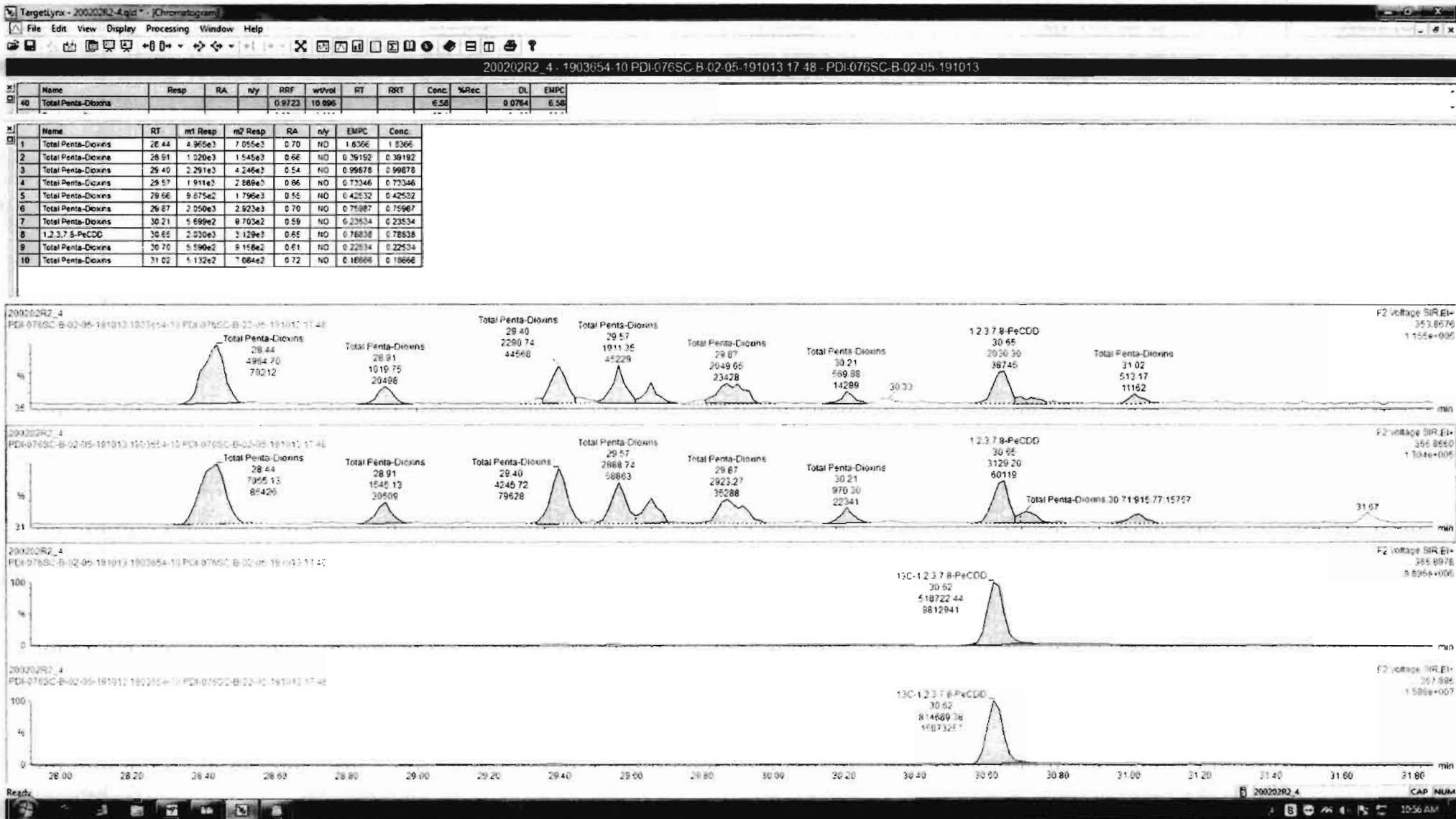
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200202R2_4



200202R2_4





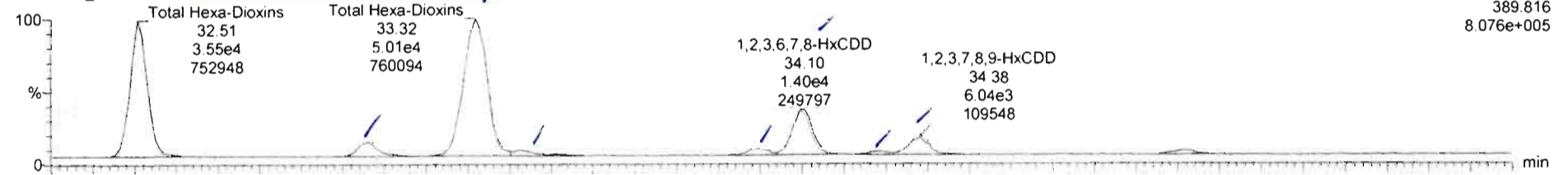
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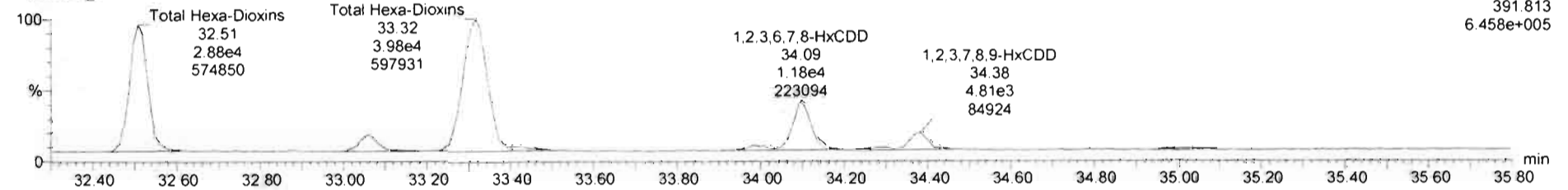
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1,2,3,4,7,8-HxCDD

200202R2_4

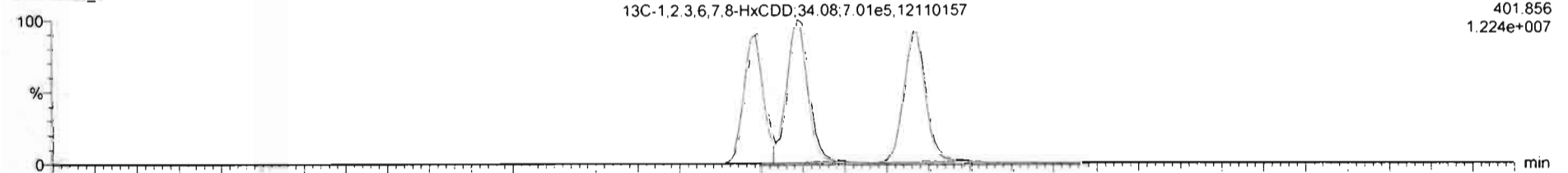


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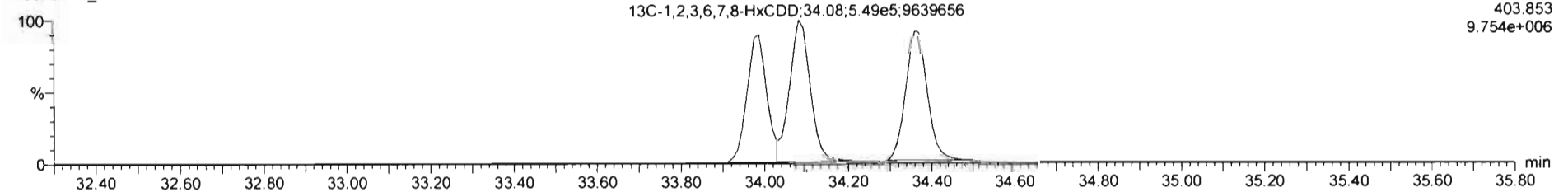


13C-1,2,3,4,7,8-HxCDD

200202R2_4



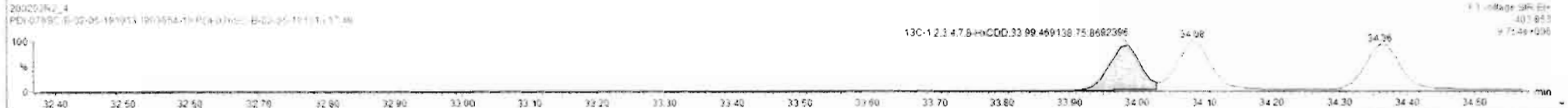
200202R2_4



200202R2_4_1903654_10.PDI-076SC-B-02-05-191013 17.48 PDI-076SC-B-02-05-191013

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9723	10.096			6.58		0.0754	6.58

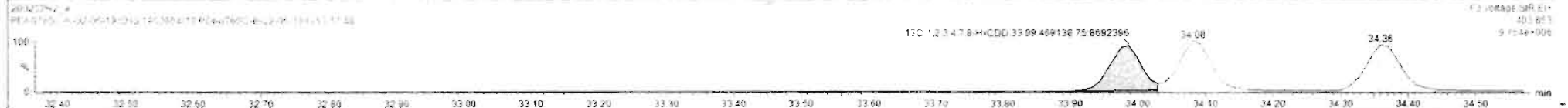
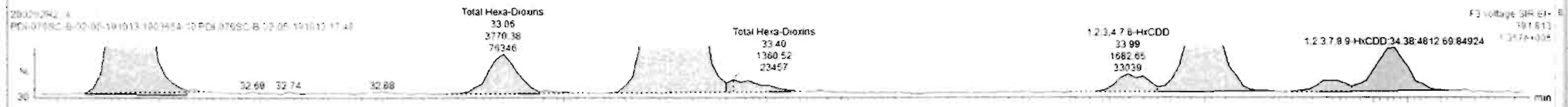
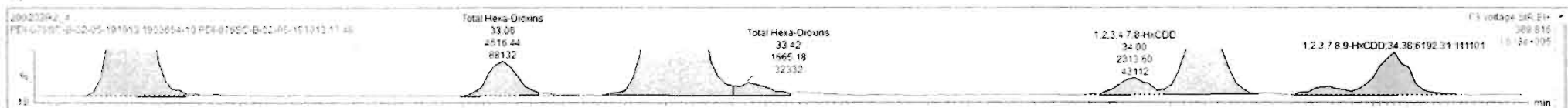
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.51	3.562e4	2.918e4	1.22	NO	11.937	11.937
2 Total Hexa-Dioxins	33.06	4.516e3	3.770e3	1.20	NO	1.5264	1.5264
3 Total Hexa-Dioxins	33.32	5.005e4	3.953e4	1.27	NO	16.506	16.506
4 Total Hexa-Dioxins	33.42	1.665e3	1.361e3	1.22	NO	0.55733	0.55733
5 1,2,3,4,7,8-HxCDD	34.00	2.314e3	1.683e3	1.37	NO	0.69708	0.69708
6 1,2,3,6,7,8-HxCDD	34.10	1.398e4	1.184e4	1.18	NO	4.4423	4.4423
7 Total Hexa-Dioxins	34.25	1.260e3	1.074e3	1.17	NO	0.42962	0.42962
8 1,2,3,7,8,9-HxCDD	34.38	6.192e3	4.813e3	1.29	NO	1.9918	1.9918



200202R2_4 - 1903654 10 PDI-076SC-B-02-05-191013 17 48 - PDI-076SC-B-02-05 191013

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	CL	EMPC
40 Total Hexa-Dioxins				0.9223	10.056			6.58		0.0764	6.58

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	32.51	2.562e4	2.915e4	1.22	NO	11.937	11.937
2 Total Hexa-Dioxins	33.06	4.516e3	3.770e3	1.20	NO	1.5264	1.5264
3 Total Hexa-Dioxins	33.32	5.009e4	3.953e4	1.27	NO	16.506	16.506
4 Total Hexa-Dioxins	33.42	1.665e3	1.361e3	1.22	NO	0.54733	0.54733
5 1,2,3,4,7,8-HxCDD	34.00	2.314e3	1.683e3	1.37	NO	0.89708	0.89708
6 1,2,3,6,7,8-HxCDD	34.10	1.396e4	1.184e4	1.18	NO	4.4423	4.4423
7 Total Hexa-Dioxins	34.29	1.260e3	1.074e3	1.17	NO	0.42982	0.42982
8 1,2,3,7,8,9-HxCDD	34.38	6.152e3	4.813e3	1.29	NO	1.9918	1.9918



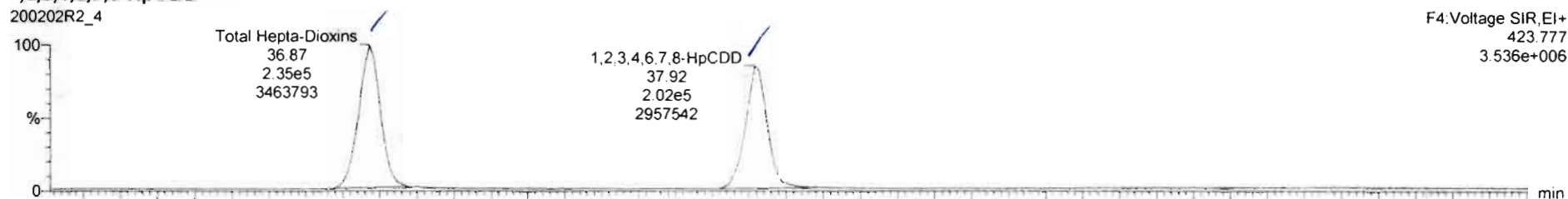
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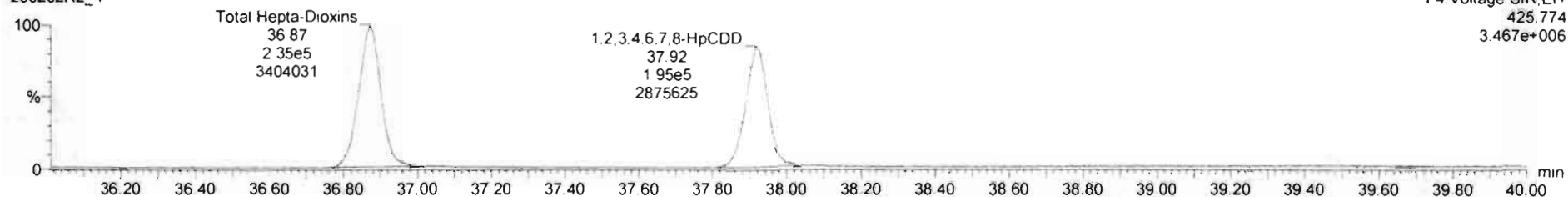
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1,2,3,4,6,7,8-HpCDD

200202R2_4

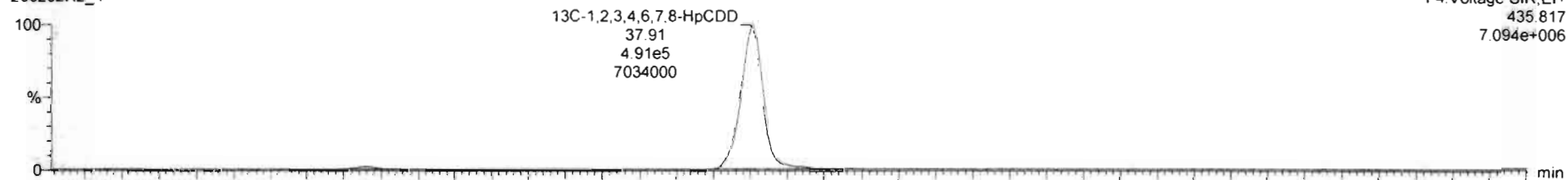


200202R2_4

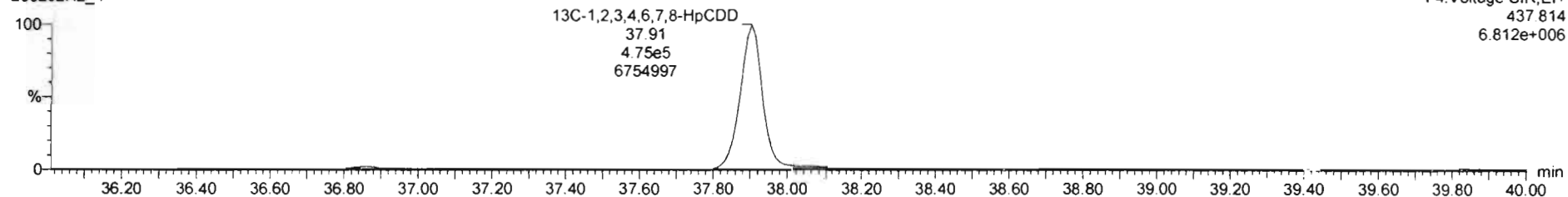


13C-1,2,3,4,6,7,8-HpCDD

200202R2_4



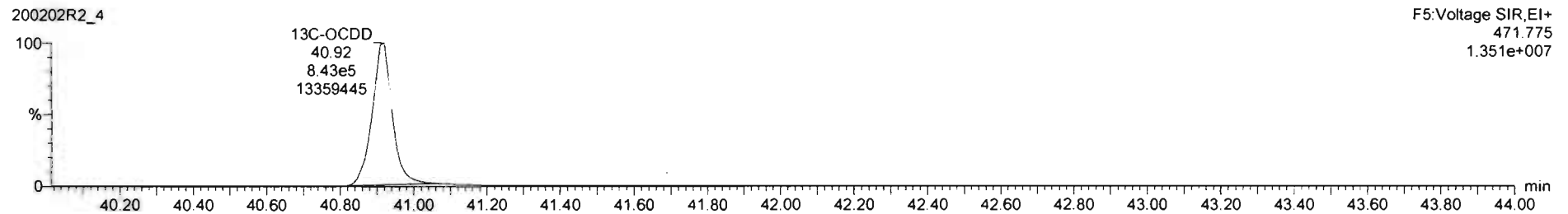
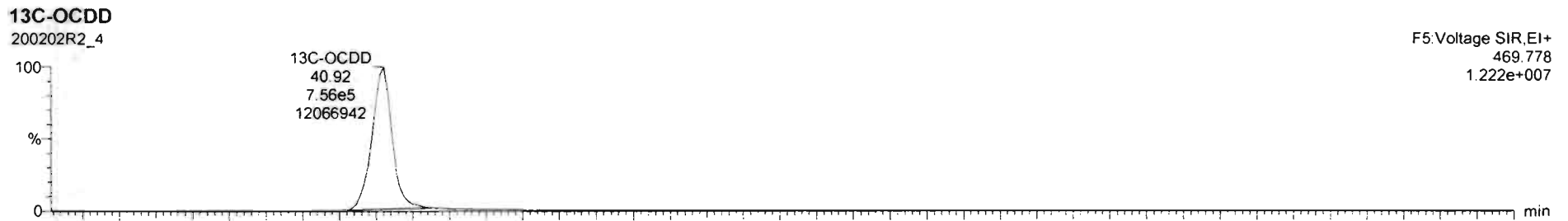
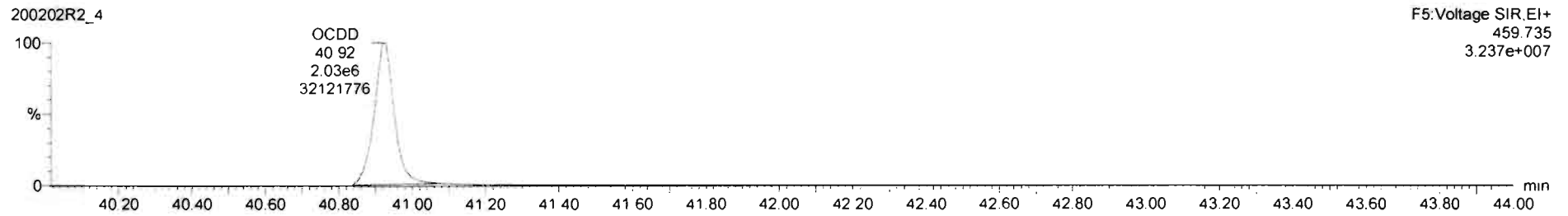
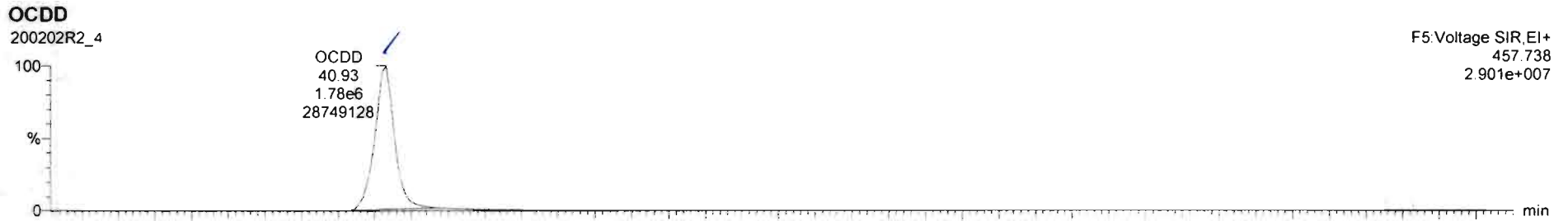
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Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

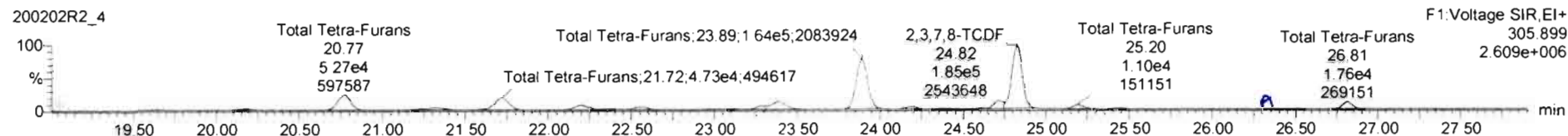
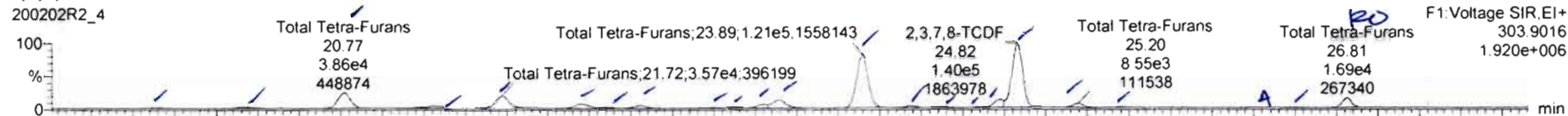


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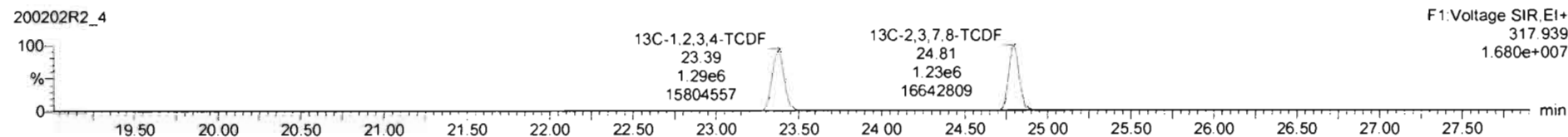
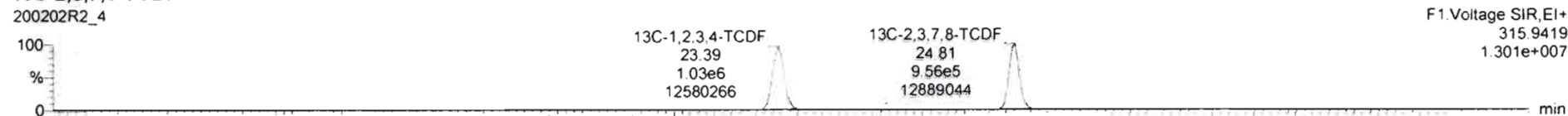
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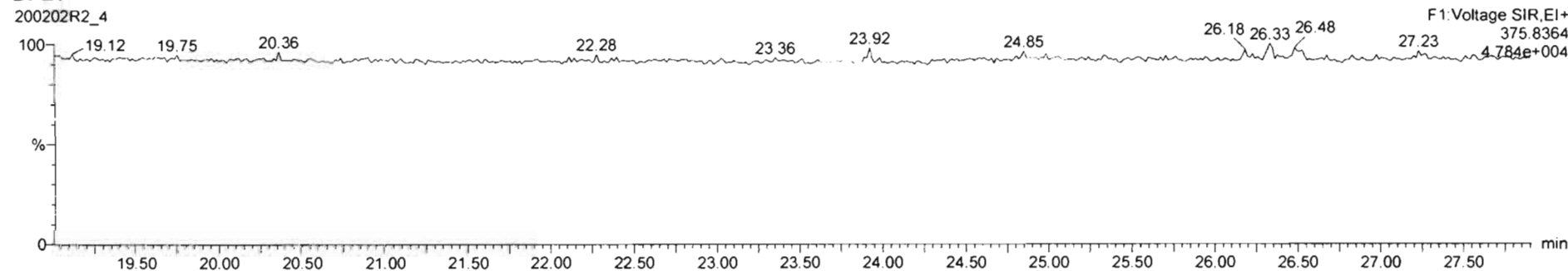
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



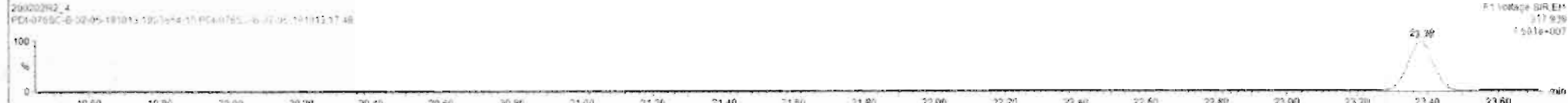
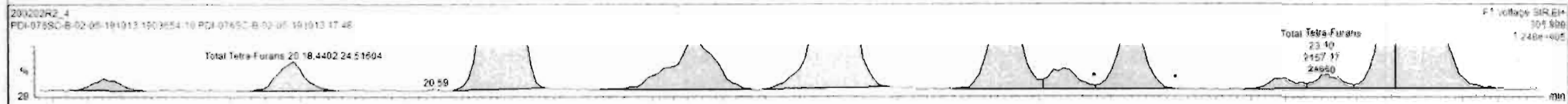
DPE1



200202R2_4 - 1903654.10 PDI-076SC-B-02-05-191013 17:48 - PDI-076SC-B-02-05-191013

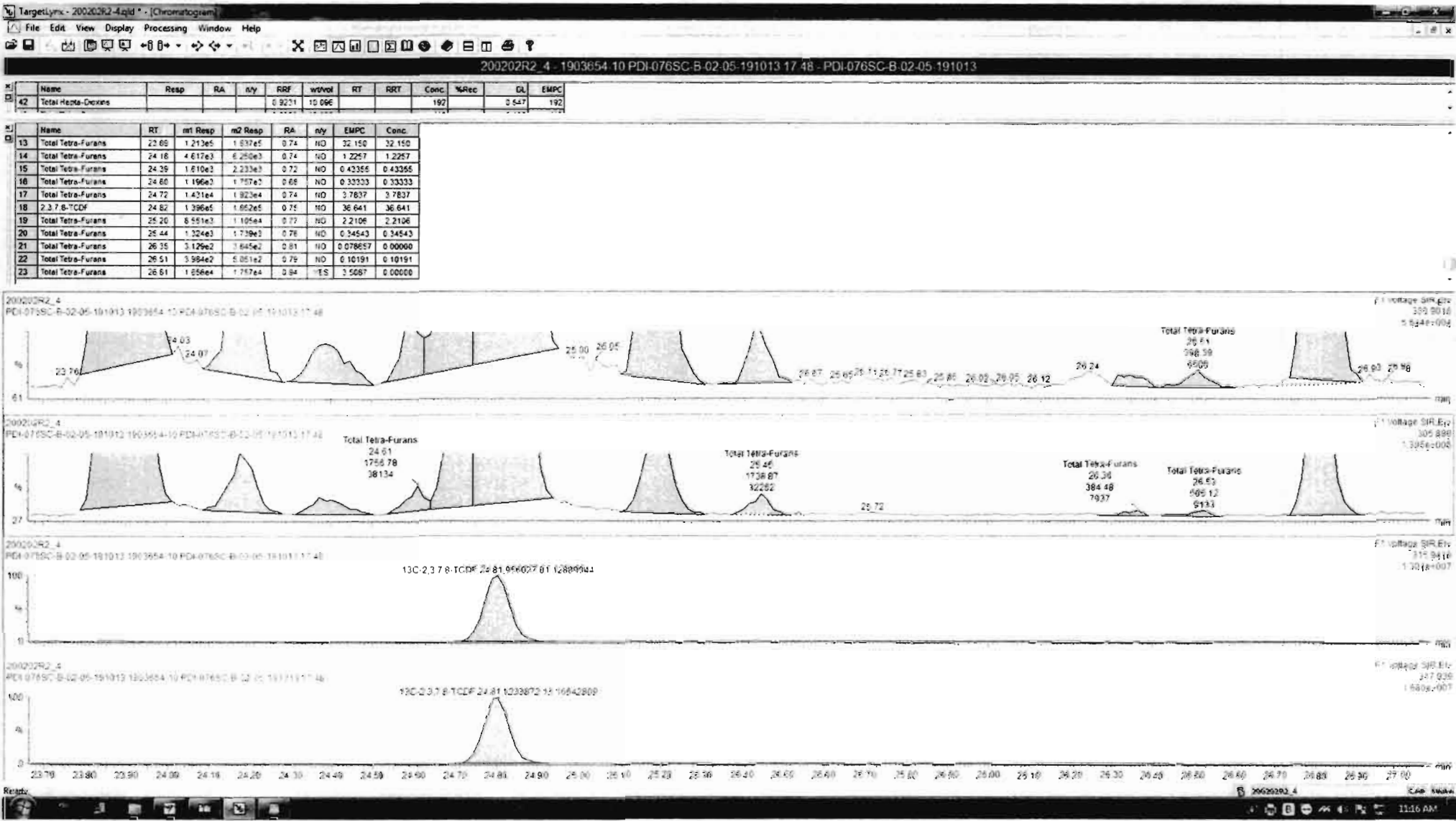
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.9231	10.096			152		0.547	192

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.66	1.430e3	1.712e3	0.83	NO	0.35442	0.35443
2 Total Tetra-Furans	20.17	3.383e3	4.402e3	0.77	NO	0.87616	0.87816
3 Total Tetra-Furans	20.77	3.961e4	5.273e4	0.73	NO	10.302	10.302
4 Total Tetra-Furans	21.31	6.513e3	1.275e4	0.75	NO	2.5109	2.5109
5 Total Tetra-Furans	21.72	3.573e4	4.729e4	0.76	NO	9.3644	9.3644
6 Total Tetra-Furans	22.19	1.276e4	1.640e4	0.78	NO	3.2901	3.2901
7 Total Tetra-Furans	22.37	2.481e3	3.422e3	0.72	NO	0.66247	0.66247
8 Total Tetra-Furans	22.56	6.947e3	1.019e4	0.68	NO	1.9228	1.9228
9 Total Tetra-Furans	23.00	1.232e3	1.659e3	0.74	NO	0.32601	0.32601
10 Total Tetra-Furans	23.12	1.659e3	2.157e3	0.77	NO	0.43048	0.43048
11 Total Tetra-Furans	23.31	7.484e3	9.700e3	0.66	NO	1.8251	1.8251
12 Total Tetra-Furans	23.40	2.205e4	3.235e4	0.66	NO	6.1410	6.1410
13 Total Tetra-Furans	23.85	1.212e3	1.627e3	0.74	NO	32.150	32.150
14 Total Tetra-Furans	24.18	4.617e3	6.250e3	0.74	NO	1.2267	1.2267
15 Total Tetra-Furans	24.39	1.610e3	2.233e3	0.72	NO	0.43355	0.43355
16 Total Tetra-Furans	24.60	1.196e3	1.757e3	0.68	NO	0.22333	0.22333
17 Total Tetra-Furans	24.72	1.431e4	1.923e4	0.74	NO	2.7837	2.7837



Custom Reporting: Select reports to generate

200202R2_4 CAP NUM



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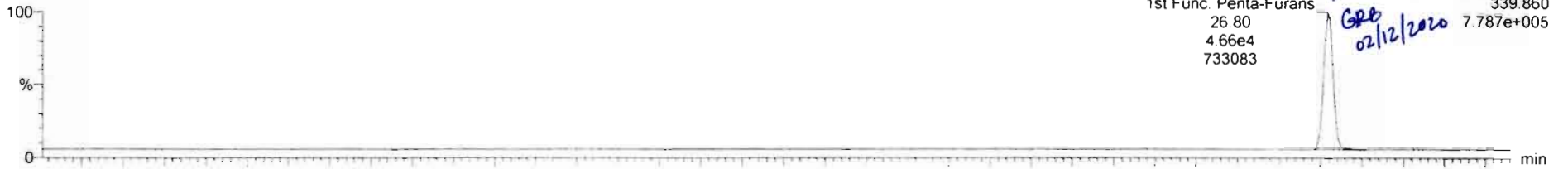
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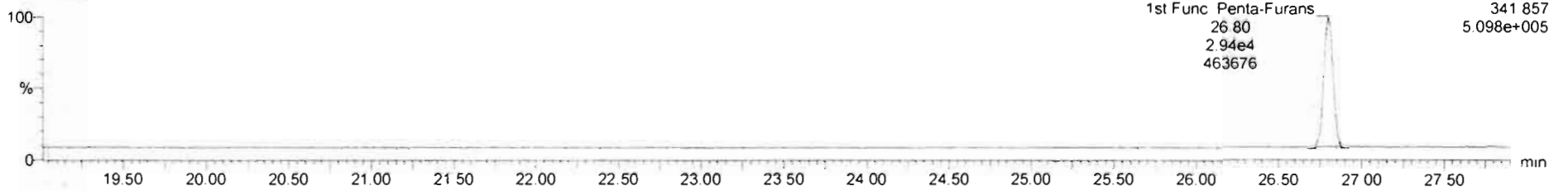
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1st Func. Penta-Furans

200202R2_4

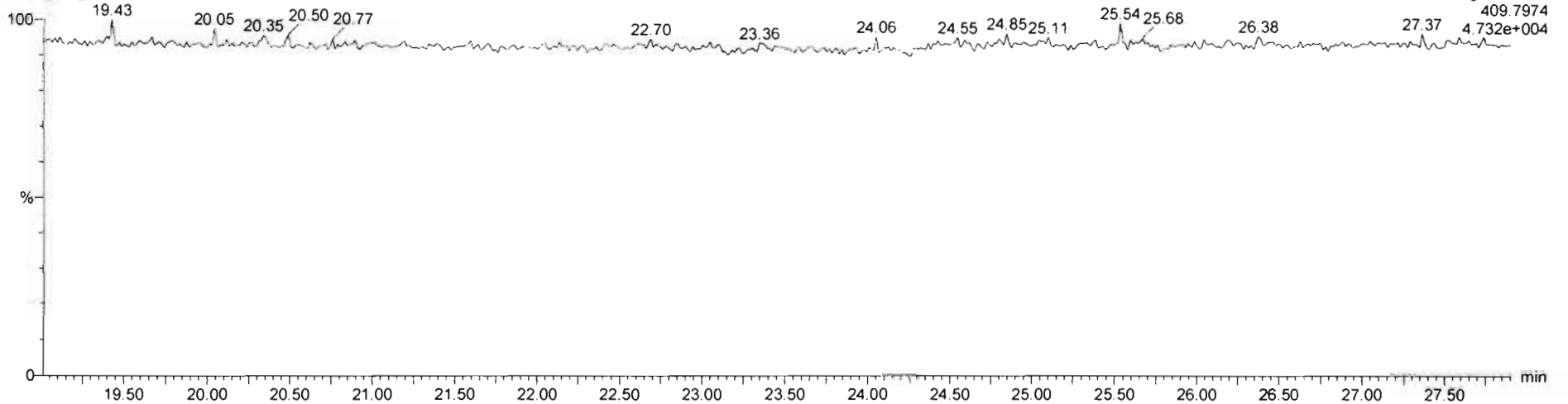


200202R2_4



DPE6

200202R2_4

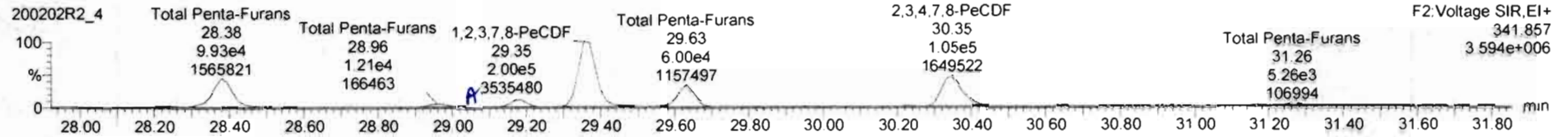
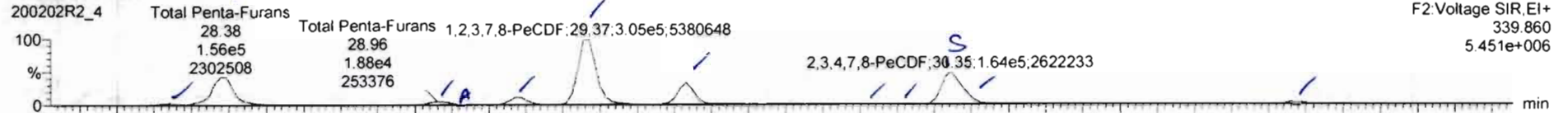


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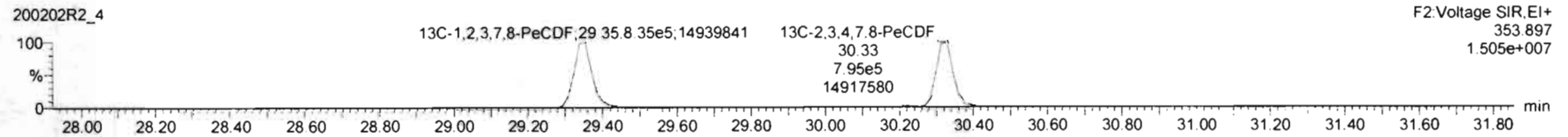
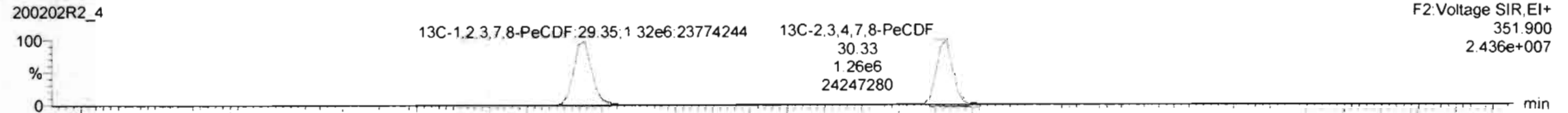
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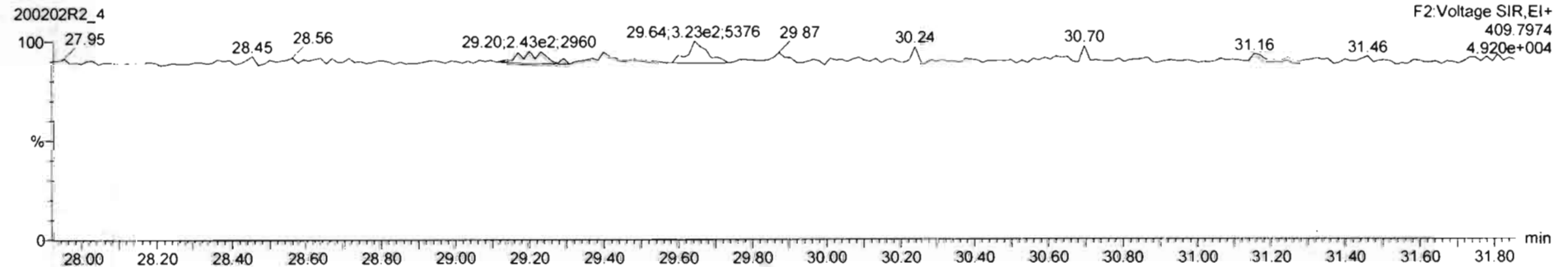
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

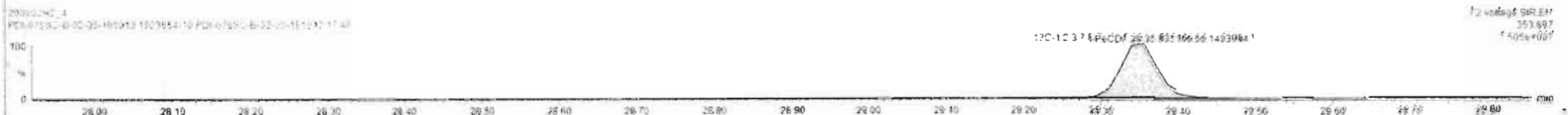
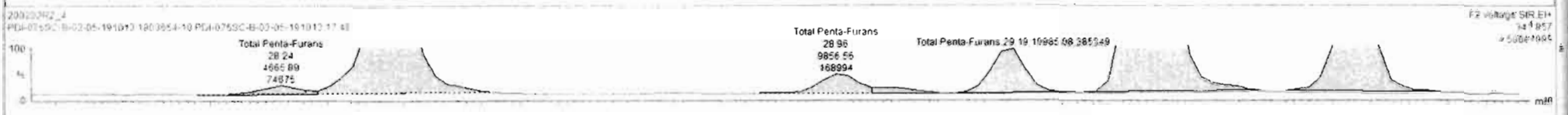
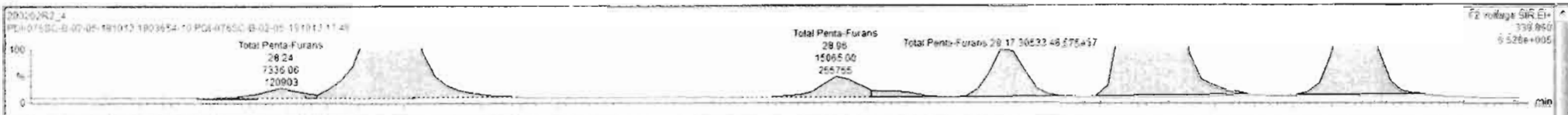


DPE2



Name	Resp	RA	nly	RRF	wthol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9074	10.09%			7.67		0.0359	7.67

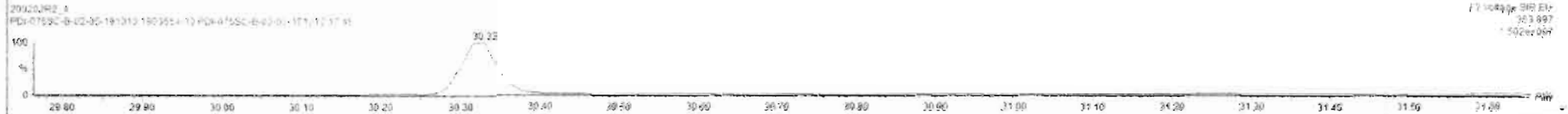
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.24	7.136e3	4.666e3	1.57	NO	1.2433	1.2433
2 Total Penta-Furans	28.36	1.558e5	9.836e4	1.52	NO	26.326	26.326
3 Total Penta-Furans	28.96	1.507e4	9.657e3	1.53	NO	2.5617	0.00000
4 Total Penta-Furans	29.00	4.156e3	2.645e2	1.57	NO	0.70453	0.00000
5 Total Penta-Furans	29.17	3.053e4	1.999e4	1.53	NO	4.2034	5.2334
6 1:2:3:7:8-PeCDF	29.37	3.046e5	2.002e5	1.52	NO	51.087	51.087
7 Total Penta-Furans	29.63	6.769e4	5.999e4	1.46	NO	15.299	15.299
8 Total Penta-Furans	30.13	6.086e2	4.077e2	1.49	NO	0.10529	0.10529
9 Total Penta-Furans	30.23	2.146e3	1.641e3	1.27	YES	0.36975	0.00000
10 2:3:4:7:8-PeCDF	30.35	1.641e5	1.054e5	1.56	NO	27.272	27.272
11 Total Penta-Furans	31.28	6.217e3	5.260e3	1.56	NO	1.3951	1.3951
12 Total Penta-Furans	21.36	2.926e3	1.118e2	2.62	YES	0.29534	0.00000



200202R2_4 - 1903654-10-PDI-076SC-B-02-05-191013 17:48 - PDI-076SC-B-02-05-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1st Func. Penta-Furans				0.9074	10.06E			7.67		0.0350	7.87

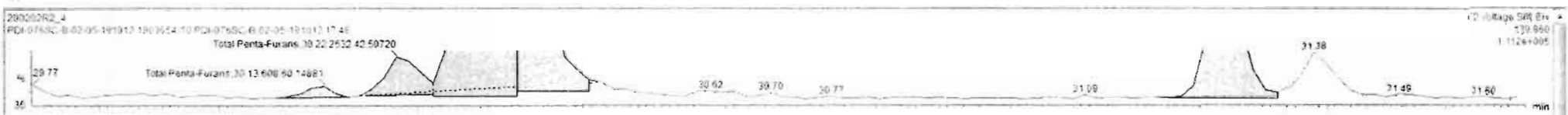
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.24	7.336e3	4.666e3	1.57	NO	1.2433	1.2433
2 Total Penta-Furans	28.36	1.558e5	9.836e4	1.56	NO	28.326	26.326
3 Total Penta-Furans	28.96	1.507e4	9.857e3	1.53	NO	2.5817	0.00060
4 Total Penta-Furans	29.00	4.156e3	2.645e3	1.57	NO	0.70453	0.00000
5 Total Penta-Furans	29.17	2.053e4	1.999e4	1.53	NO	5.2324	5.2324
6 1,2,3,7,8-PeCDF	29.37	3.046e5	2.002e5	1.52	NO	51.087	51.087
7 Total Penta-Furans	29.63	6.769e4	5.999e4	1.46	NO	15.299	15.299
8 Total Penta-Furans	30.13	6.086e2	4.077e2	1.45	NO	0.10529	0.10529
9 Total Penta-Furans	30.22	2.532e3	1.641e3	1.38	NO	0.45310	0.45310
10 2,3,4,7,8-PeCDF	30.35	1.276e5	8.824e4	1.56	NO	22.846	22.846
11 Total Penta-Furans	30.38	2.826e4	1.732e4	1.63	NO	4.7221	4.7221
12 Total Penta-Furans	31.28	8.217e3	5.260e3	1.56	NO	1.3961	1.3961



200202R2_4 - 1903654-10 PDI-076SC-B-02-05-191013 17.48 - PDI-076SC-B-02-05-191013

Name	Resp	RA	n/y	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
1st Func. Penta-Furans				0.9074	10.096			7.67		0.0350	7.87

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.24	7.336e3	4.666e2	1.57	NO	1.2433	1.2433
2 Total Penta-Furans	28.38	1.658e5	9.836e4	1.58	NO	26.326	26.326
3 Total Penta-Furans	28.96	1.507e4	9.857e3	1.53	NO	2.5817	0.00000
4 Total Penta-Furans	29.00	4.158e3	2.645e2	1.57	NO	0.70453	0.00000
5 Total Penta-Furans	28.17	3.053e4	1.999e4	1.50	NO	5.2334	5.2334
6 1,2,3,7,8-PeCDF	29.37	3.046e5	2.002e5	1.52	NO	51.087	51.087
7 Total Penta-Furans	29.63	8.789e4	5.999e4	1.48	NO	15.299	15.299
8 Total Penta-Furans	30.13	8.086e2	4.077e2	1.49	NO	0.10529	0.10529
9 Total Penta-Furans	30.22	2.532e3	1.841e3	1.38	NO	0.45310	0.45310
10 2,3,4,7,8-PeCDF	30.35	1.378e5	8.824e4	1.56	NO	22.846	22.846
11 Total Penta-Furans	30.38	2.828e4	1.732e4	1.63	NO	4.7221	4.7221
12 Total Penta-Furans	31.28	8.217e3	5.290e3	1.56	NO	1.3961	1.3961



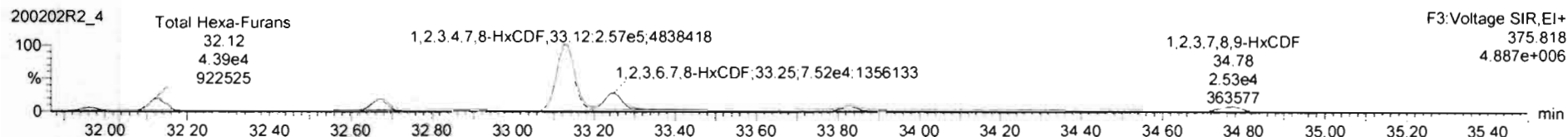
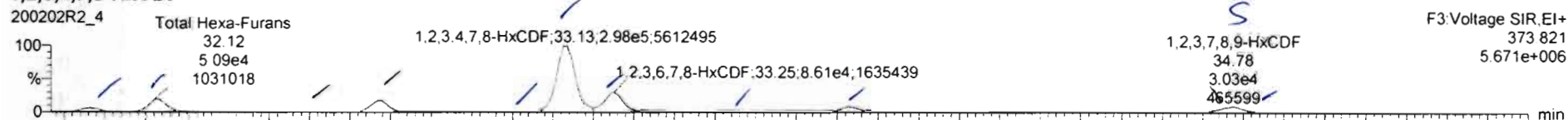
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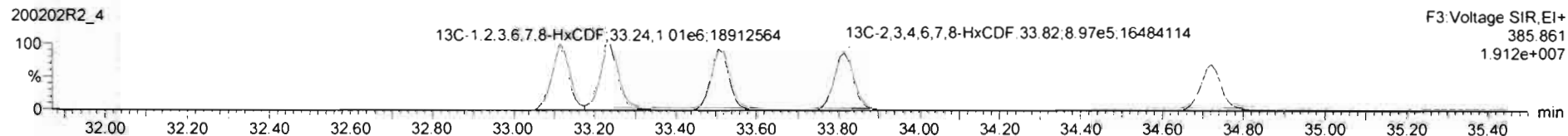
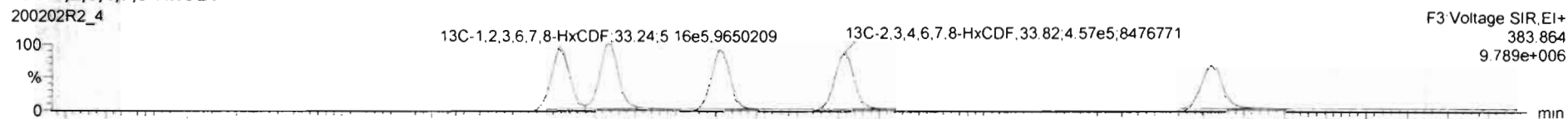
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Name: 200202R2_4, Date: 03-Feb-2020, Time: 00:38:03, ID: 1903654-10 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

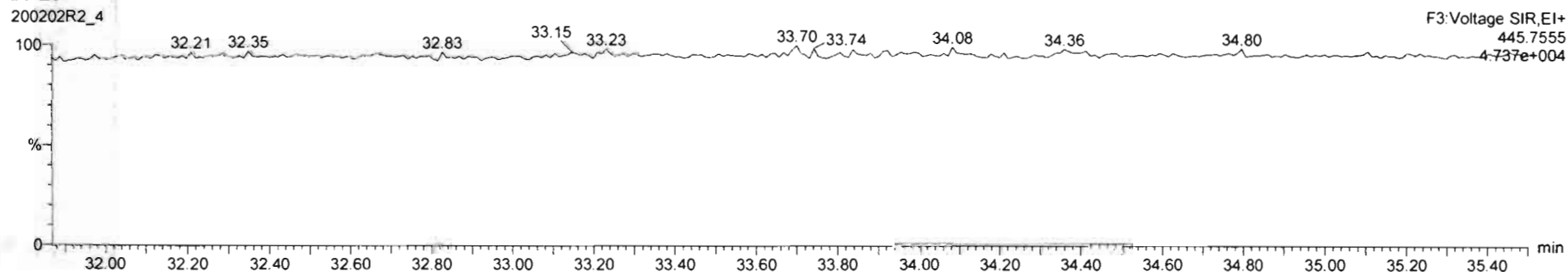
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13C-1,2,3,4,7,8-HxCDF



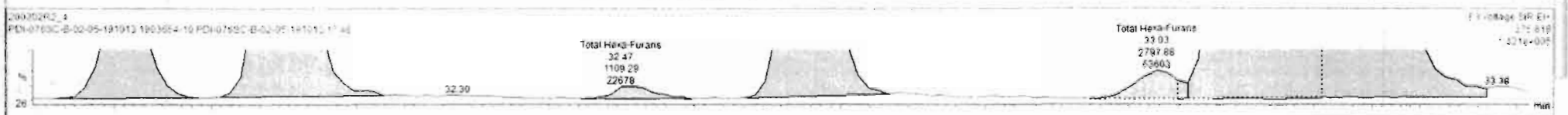
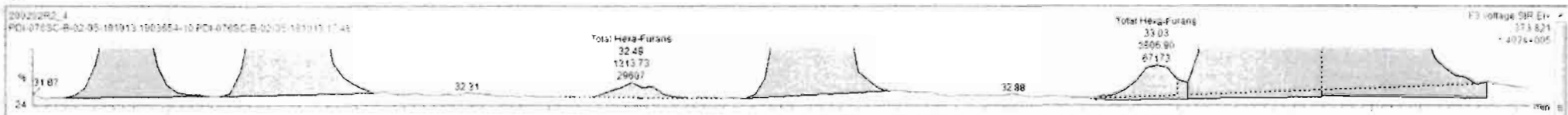
DPE3



200202R2_4 - 1903654 10 PDI-076SC-B-02-05-191013 17 48 - PDI-076SC-B-02-05-191013

#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.096			7.87		0.0360	7.87
45	Total Penta-Furans				0.9074	10.096			129		0.146	132
46	Total Hexa-Furans				0.0902	10.096			167		0.153	168

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	31.96	1.337e4	1.125e4	1.16	NO	2.9613	3.9613
2	Total Hexa-Furans	32.12	5.086e4	4.387e4	1.16	NO	15.219	15.219
3	Total Hexa-Furans	32.49	1.314e3	1.109e3	1.16	NO	0.38920	0.38920
4	Total Hexa-Furans	32.68	4.501e4	3.822e4	1.18	NO	13.368	13.368
5	Total Hexa-Furans	33.03	3.507e3	2.796e3	1.25	NO	1.0127	1.0127
6	1,2,3,4,7,8-HxCDF	33.13	2.995e5	2.568e5	1.17	NO	91.045	91.045
7	1,2,3,6,7,8-HxCDF	33.25	6.928e4	7.625e4	1.19	NO	25.312	25.312
8	Total Hexa-Furans	33.52	1.352e3	1.312e3	1.05	YES	0.39241	0.00000
9	2,3,4,6,7,8-HxCDF	33.83	2.026e4	1.747e4	1.16	NO	6.1379	6.1379
10	1,2,3,7,8-HxCDF	34.78	3.027e4	2.534e4	1.18	NO	10.663	10.663



200202R2_4 - 1903654 10 PDI-076SC-B-02-05-191013 17 48 - PDI-076SC-B-02-05-191013

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9074	10.096			7.67	0.0350	7.67	
45 Total Penta-Furans				0.9074	10.096			129	0.146	132	
46 Total Hexa-Furans				0.8962	10.066			166	0.153	168	

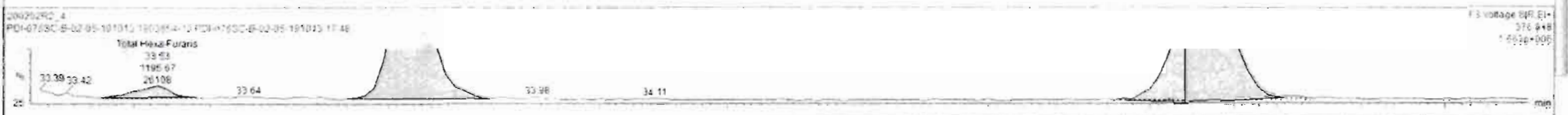
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	31.96	1.337e4	1.129e4	1.18	NO	1.9612	3.9613
2 Total Hexa-Furans	32.12	5.068e4	4.387e4	1.16	NO	15.219	15.219
3 Total Hexa-Furans	32.49	1.314e3	1.109e3	1.18	NO	0.38920	0.38920
4 Total Hexa-Furans	32.88	4.501e4	3.822e4	1.18	NO	13.368	13.368
5 Total Hexa-Furans	33.03	3.507e3	2.798e3	1.25	NO	1.0127	1.0127
6 1,2,3,4,7,8-HxCDF	33.13	2.995e5	2.568e5	1.17	NO	51.045	91.045
7 1,2,3,6,7,8-HxCDF	33.25	6.928e4	7.525e4	1.19	NO	25.312	25.312
8 Total Hexa-Furans	33.52	1.339e3	1.196e3	1.12	NO	0.40710	0.40710
9 2,3,4,6,7,8-HxCDF	33.83	7.029e4	1.747e4	1.16	NO	6.1379	6.1379
10 1,2,3,7,8,9-HxCDF	34.74	5.546e3	5.217e3	1.06	NO	2.0635	2.0635
11 Total Hexa-Furans	34.78	2.504e4	2.022e4	1.24	NO	7.2707	7.2707



200202R2_4 - 1903654-10 PDI-076SC-B-02-05-191013 17 48 - PDI-076SC-B-02-05-191013

Name	Resp	RA	nby	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func Penta-Furans				0.9074	10.096			7.67	0.0350	7.87	
45 Total Penta-Furans				0.9074	10.096			126	0.146	132	
46 Total Hexa-Furans				0.8962	10.096			166	0.153	166	

Name	RT	m1 Resp	m2 Resp	RA	nby	EMPC	Conc
1 Total Hexa-Furans	31.96	1.337e4	1.129e4	1.18	NO	3.9613	3.9613
2 Total Hexa-Furans	32.12	5.028e4	4.387e4	1.16	NO	15.219	15.219
3 Total Hexa-Furans	32.45	1.314e3	1.109e3	1.18	NO	0.38920	0.38920
4 Total Hexa-Furans	32.88	4.401e4	3.822e4	1.18	NO	13.368	13.368
5 Total Hexa-Furans	33.03	3.507e3	2.796e2	1.25	NO	1.0127	1.0127
6 1,2,3,4,7,8-HxCDF	33.13	2.595e5	2.568e5	1.17	NO	91.045	91.045
7 1,2,3,6,7,8-HxCDF	33.25	8.522e4	7.525e4	1.19	NO	25.312	25.312
8 Total Hexa-Furans	33.52	1.339e3	1.196e3	1.12	NO	0.40710	0.40710
9 2,3,4,6,7,8-HxCDF	33.83	2.020e4	1.747e4	1.16	NO	6.1379	6.1379
10 1,2,3,7,8,9-HxCDF	34.74	5.546e3	5.217e2	1.06	NO	2.0635	2.0635
11 Total Hexa-Furans	34.78	2.594e4	2.022e4	1.24	NO	7.2707	7.2707

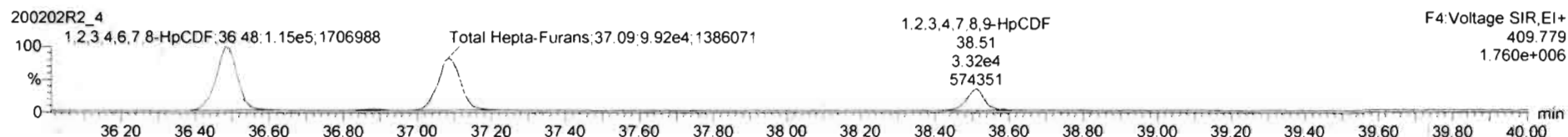


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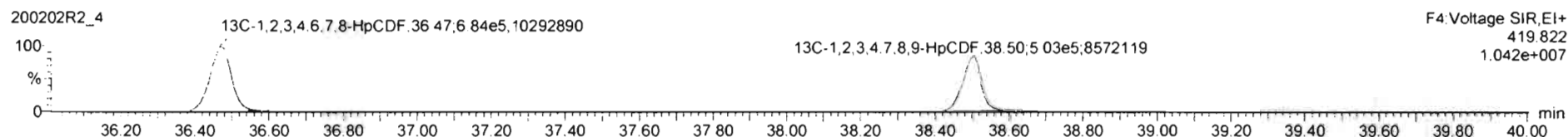
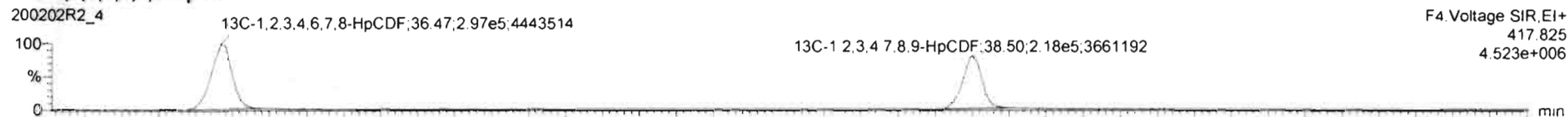
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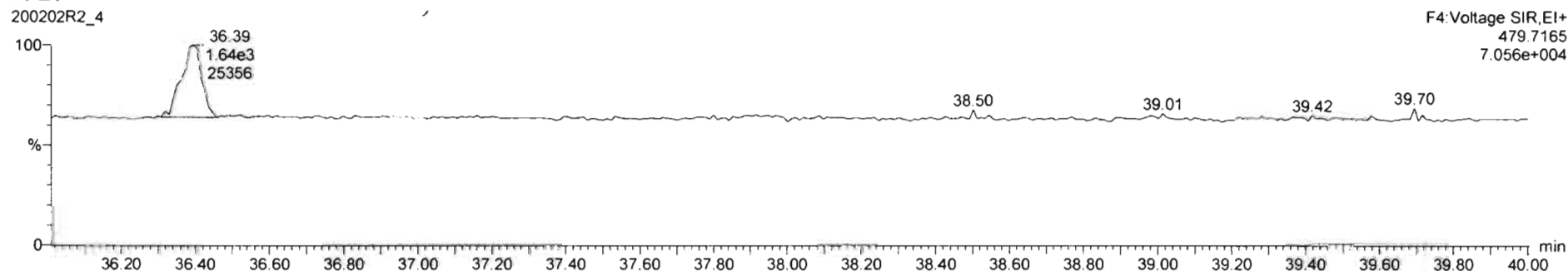
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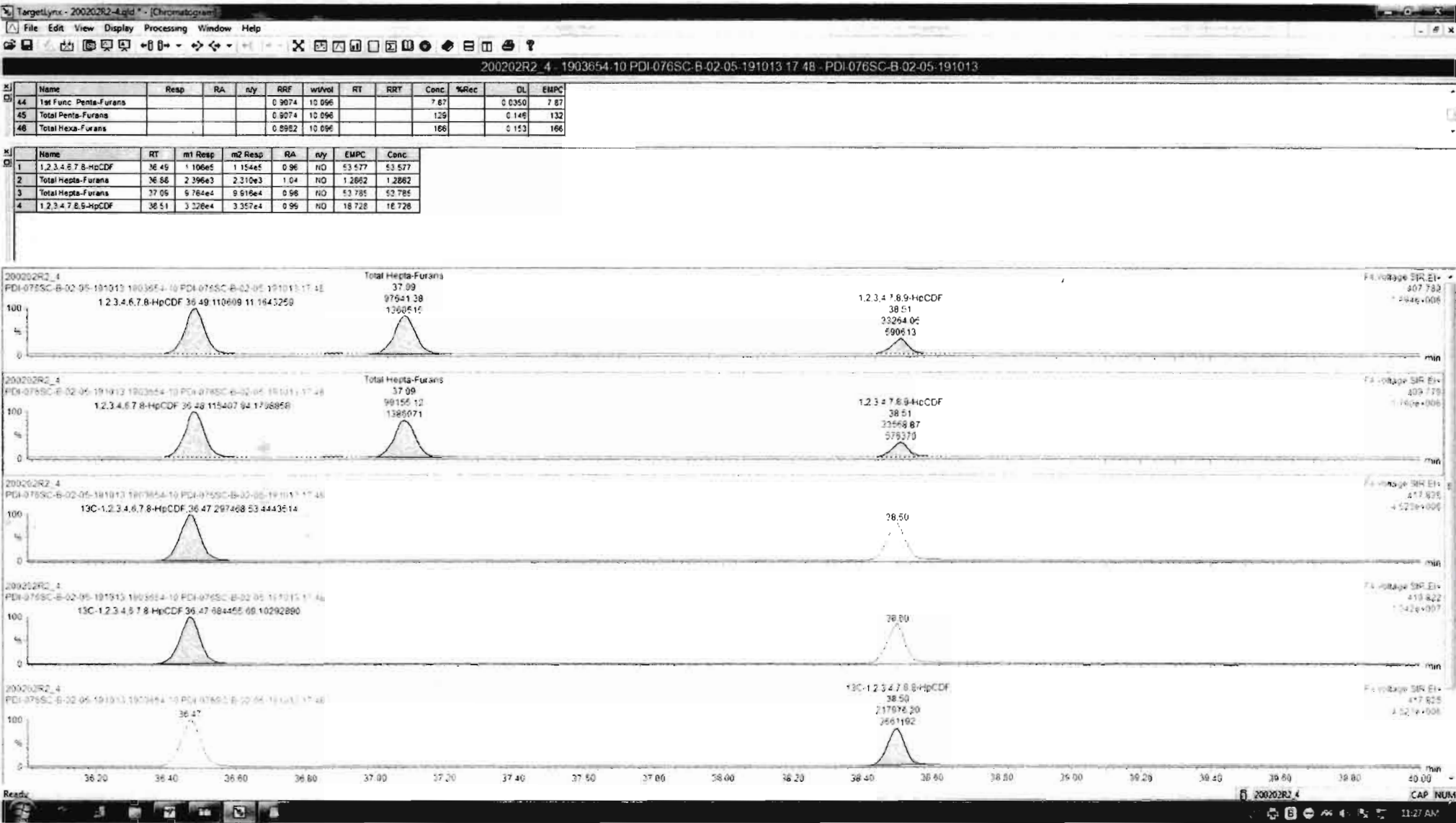


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DPE4

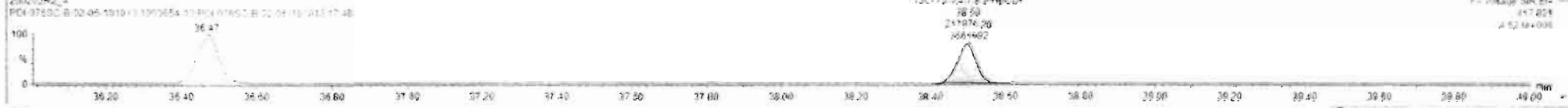
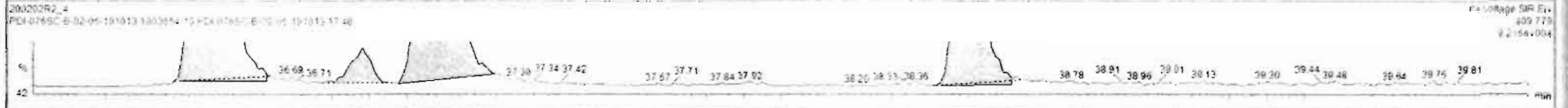
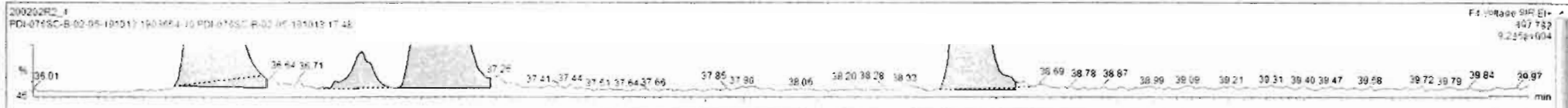




200202R2_4 - 1903654 10 PDI-076SC B-02-05-191013 17 48 - PDI-076SC-B-02-05-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9074	10.096			7.67	0.0350	7.87	
45 Total Penta-Furans				0.9074	10.096			129	0.148	132	
46 Total Hexa-Furans				0.8982	10.096			166	0.153	168	

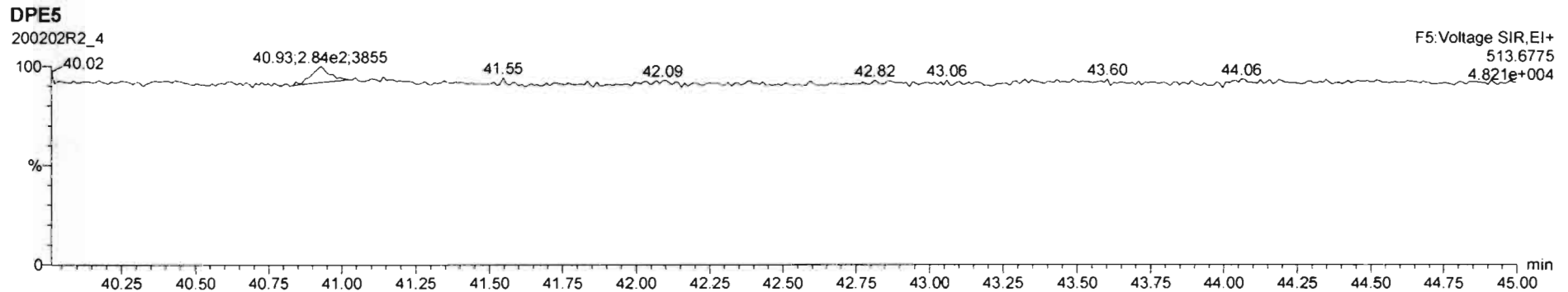
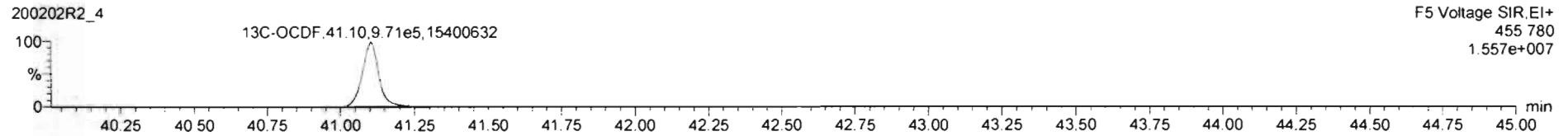
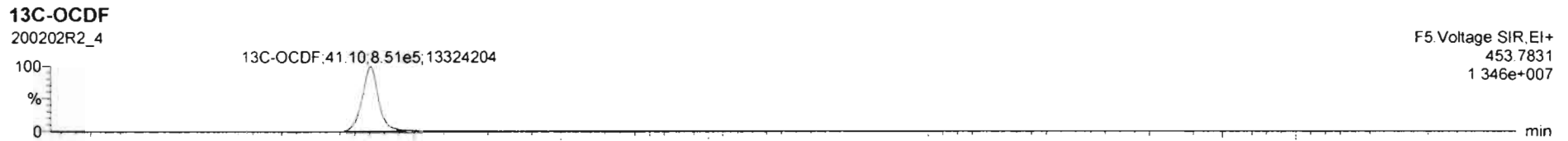
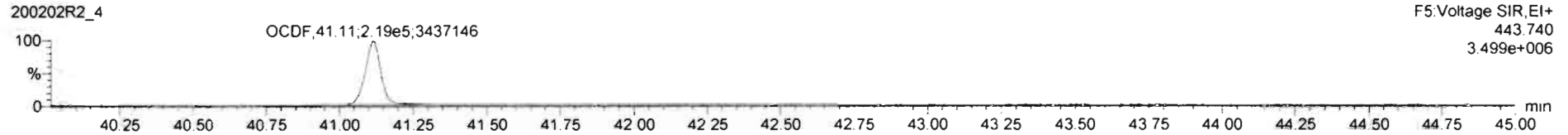
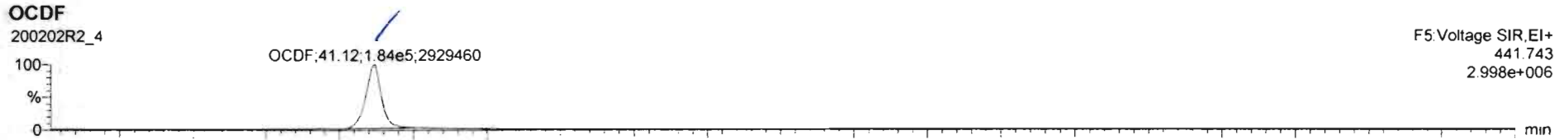
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.49	1.106e5	1.154e5	0.96	ND	53.577	53.577
2 Total Hepta-Furans	36.66	2.396e3	2.310e3	1.04	ND	1.2662	1.2662
3 Total Hepta-Furans	37.06	6.764e4	6.916e4	0.98	ND	53.785	53.785
4 1,2,3,4,7,8,9-HpCDF	38.51	3.326e4	3.357e4	0.99	ND	16.728	16.728



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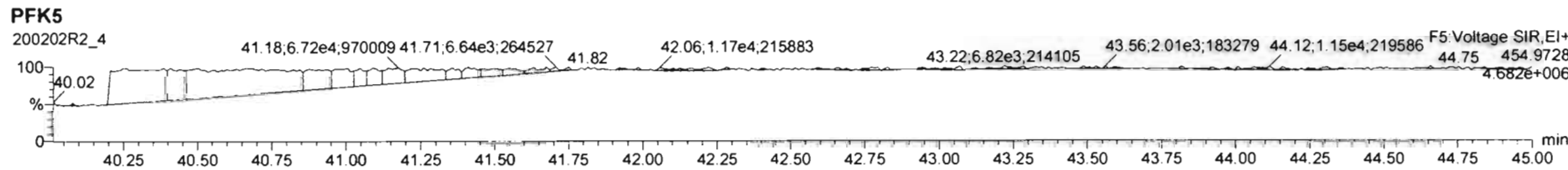
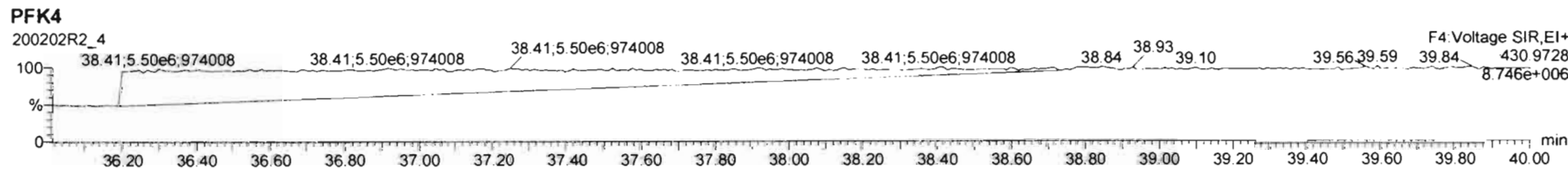
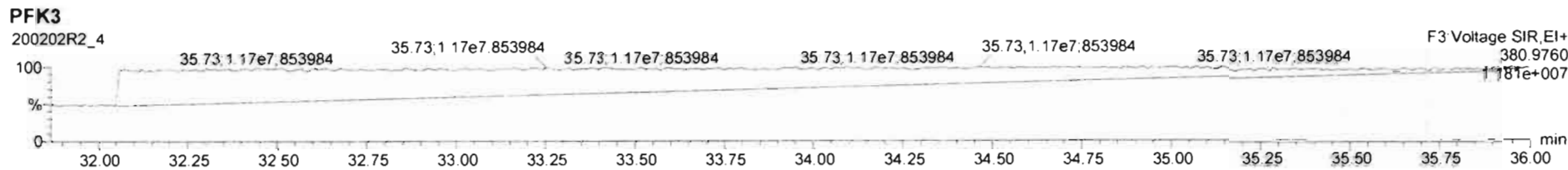
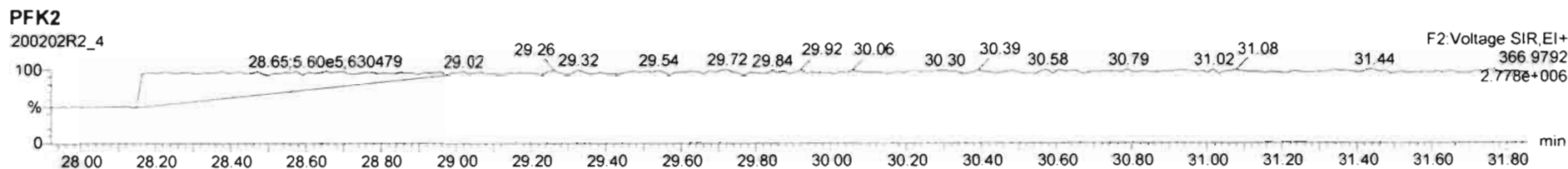
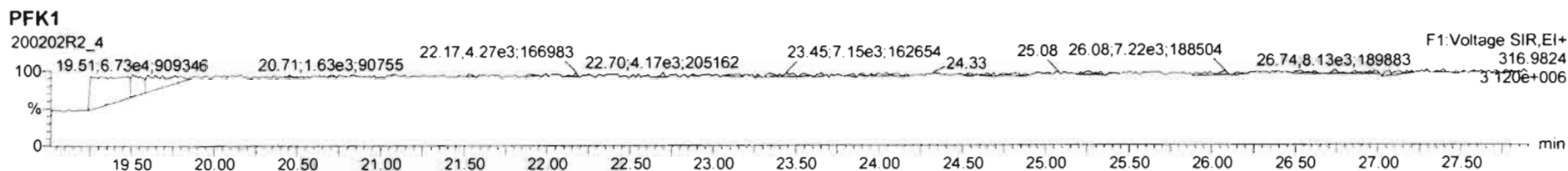
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GRB 03/19/2020

C7 03/23/2020

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*SEE DIL.

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.49e3	0.75	NO	0.983	10.004	25.871	25.87	1.001	1.001	2.2471		0.242	2.25
2	2 1,2,3,7,8-PeCDD	1.03e4	0.64	NO	0.921	10.004	31.101	31.09	1.001	1.000	3.3871		0.318	3.39
3	3 1,2,3,4,7,8-HxCDD	1.16e4	1.22	NO	1.13	10.004	34.480	34.49	1.000	1.001	3.8611		0.325	3.86
4	4 1,2,3,6,7,8-HxCDD	8.47e4	1.21	NO	0.984	10.004	34.576	34.59	1.000	1.000	29.449		0.355	29.4
5	5 1,2,3,7,8,9-HxCDD	3.29e4	1.23	NO	0.967	10.004	34.842	34.85	1.000	1.001	10.736		0.340	10.7
6	6 1,2,3,4,6,7,8-HpCDD	3.79e6	1.04	NO	1.01	10.004	38.283	38.28	1.000	1.000	1317.6		1.60	1320
7	7 OCDD	3.41e7	0.88	NO	1.05	10.004	41.340	41.35	1.000	1.000	12388.6*		0.967	12400
8	8 2,3,7,8-TCDF	7.81e5	0.76	NO	0.915	10.004	24.862	24.88	1.001	1.002	179.21 (167)		0.478	179
9	9 1,2,3,7,8-PeCDF	1.13e6	1.53	NO	0.959	10.004	29.757	29.75	1.001	1.001	264.57		0.253	265
10	10 2,3,4,7,8-PeCDF	5.09e5	1.55	NO	1.00	10.004	30.789	30.77	1.001	1.001	117.79		0.237	118
11	11 1,2,3,4,7,8-HxCDF	1.57e6	1.22	NO	1.04	10.004	33.618	33.64	1.000	1.001	428.80		0.236	429
12	12 1,2,3,6,7,8-HxCDF	4.18e5	1.21	NO	1.01	10.004	33.745	33.75	1.000	1.000	112.02		0.233	112
13	13 2,3,4,6,7,8-HxCDF	1.14e5	1.24	NO	1.09	10.004	34.344	34.32	1.001	1.000	29.532		0.263	29.5
14	14 1,2,3,7,8,9-HxCDF	1.47e5	1.21	NO	1.03	10.004	35.173	35.23	1.000	1.002	43.110		0.302	43.1
15	15 1,2,3,4,6,7,8-HpCDF	9.49e5	1.01	NO	1.05	10.004	36.903	36.89	1.001	1.001	298.58		0.452	299
16	16 1,2,3,4,7,8,9-HpCDF	2.35e5	1.01	NO	1.21	10.004	38.911	38.93	1.000	1.001	83.920		0.511	83.9
17	17 OCDF	2.25e6	0.87	NO	0.947	10.004	41.510	41.53	1.000	1.001	818.09		0.430	818
18	18 13C-2,3,7,8-TCDD	7.68e5	0.78	NO	1.18	10.004	25.843	25.84	1.029	1.029	149.67	74.9	1.21	
19	19 13C-1,2,3,7,8-PeCDD	6.61e5	0.64	NO	0.864	10.004	31.048	31.08	1.236	1.237	176.46	88.3	0.287	
20	20 13C-1,2,3,4,7,8-HxCDD	5.30e5	1.25	NO	0.754	10.004	34.474	34.47	1.014	1.014	159.53	79.8	0.282	
21	21 13C-1,2,3,6,7,8-HxCDD	5.84e5	1.25	NO	0.925	10.004	34.582	34.58	1.017	1.017	143.16	71.6	0.230	
22	22 13C-1,2,3,7,8,9-HxCDD	6.32e5	1.23	NO	0.829	10.004	34.844	34.83	1.025	1.024	172.97	86.5	0.257	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.72e5	1.06	NO	0.598	10.004	38.306	38.27	1.127	1.126	216.76	108	0.491	
24	24 13C-OCDD	1.05e6	0.92	NO	0.571	10.004	41.457	41.34	1.219	1.216	416.25	104	0.388	*
25	25 13C-2,3,7,8-TCDF	9.52e5	0.77	NO	1.09	10.004	24.861	24.84	0.990	0.989	142.37	71.2	1.22	
26	26 13C-1,2,3,7,8-PeCDF	8.90e5	1.57	NO	0.876	10.004	29.714	29.74	1.183	1.184	165.47	82.8	0.550	
27	27 13C-2,3,4,7,8-PeCDF	8.61e5	1.59	NO	0.844	10.004	30.729	30.76	1.223	1.224	166.21	83.1	0.571	
28	28 13C-1,2,3,4,7,8-HxCDF	7.05e5	0.52	NO	1.00	10.004	33.620	33.62	0.989	0.989	159.80	79.9	0.347	
29	29 13C-1,2,3,6,7,8-HxCDF	7.37e5	0.52	NO	1.12	10.004	33.729	33.74	0.992	0.992	149.56	74.8	0.311	
30	30 13C-2,3,4,6,7,8-HxCDF	7.09e5	0.51	NO	1.04	10.004	34.310	34.31	1.009	1.009	155.38	77.7	0.336	
31	31 13C-1,2,3,7,8,9-HxCDF	6.63e5	0.52	NO	0.873	10.004	35.184	35.17	1.035	1.034	172.30	86.2	0.398	

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-8.qld

Last Altered: Thursday, March 19, 2020 4:50:03 PM Pacific Daylight Time

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Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.06e5	0.43	NO	0.771	10.004	36.901	36.87	1.085	1.084	178.45	89.3	0.366	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.63e5	0.43	NO	0.519	10.004	38.989	38.91	1.147	1.144	202.31	101	0.544	
34	34 13C-OCDF	1.16e6	0.88	NO	0.696	10.004	41.638	41.51	1.225	1.221	378.13	94.6	0.350	
35	35 37Cl-2,3,7,8-TCDD	2.88e5			1.17	10.004	25.853	25.87	1.029	1.030	56.516	70.7	0.234	
36	36 13C-1,2,3,4-TCDD	8.67e5	0.80	NO	1.00	10.004	25.050	25.12	1.000	1.000	199.91	100	1.43	
37	37 13C-1,2,3,4-TCDF	1.23e6	0.80	NO	1.00	10.004	23.190	23.21	1.000	1.000	199.91	100	1.33	
38	38 13C-1,2,3,4,6,9-HxCDF	8.81e5	0.52	NO	1.00	10.004	33.880	34.00	1.000	1.000	199.91	100	0.347	
39	39 Total Tetra-Dioxins				0.983	10.004	24.620		0.000		22.723		0.242	22.7
40	40 Total Penta-Dioxins				0.921	10.004	29.960		0.000		34.247		0.318	34.4
41	41 Total Hexa-Dioxins				0.984	10.004	33.635		0.000		299.55		0.353	300
42	42 Total Hepta-Dioxins				1.01	10.004	37.640		0.000		2877.5		1.60	2880
43	43 Total Tetra-Furans				0.915	10.004	23.610		0.000		616.98		0.478	641
44	44 1st Func. Penta-Furans				0.959	10.004	27.090		0.000		70.501		0.104	70.5
45	45 Total Penta-Furans				0.959	10.004	29.275		0.000		692.72		0.250	713
46	46 Total Hexa-Furans				1.09	10.004	33.555		0.000		845.61		0.246	846
47	47 Total Hepta-Furans				1.05	10.004	37.835		0.000		930.93		0.512	931

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-8.qld

Last Altered: Thursday, March 19, 2020 4:50:03 PM Pacific Daylight Time
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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.59	1.361e5	1.850e5	1.263e4	1.675e4	0.75	NO	2.938e4	7.7735	7.7735	0.242
2	Total Tetra-Dioxins	21.99	2.713e4	3.557e4	3.069e3	4.084e3	0.75	NO	7.153e3	1.8925	1.8925	0.242
3	Total Tetra-Dioxins	22.46	1.794e4	2.250e4	1.141e3	1.348e3	0.85	NO	2.490e3	0.65878	0.65878	0.242
4	Total Tetra-Dioxins	23.42	7.066e3	1.014e4	7.349e2	8.535e2	0.86	NO	1.588e3	0.42028	0.42028	0.242
5	Total Tetra-Dioxins	23.74	2.335e4	3.030e4	2.905e3	3.773e3	0.77	NO	6.678e3	1.7670	1.7670	0.242
6	Total Tetra-Dioxins	23.94	3.379e4	3.979e4	2.612e3	3.317e3	0.79	NO	5.929e3	1.5686	1.5686	0.242
7	Total Tetra-Dioxins	24.16	8.711e3	1.245e4	9.090e2	1.129e3	0.80	NO	2.038e3	0.53930	0.53930	0.242
8	Total Tetra-Dioxins	24.49	6.518e3	1.066e4	6.077e2	8.497e2	0.72	NO	1.457e3	0.38562	0.38562	0.242
9	Total Tetra-Dioxins	24.67	1.783e4	1.741e4	1.140e3	1.350e3	0.84	NO	2.490e3	0.65884	0.65884	0.242
10	Total Tetra-Dioxins	25.11	1.239e4	2.097e4	1.055e3	1.317e3	0.80	NO	2.372e3	0.62757	0.62757	0.242
11	Total Tetra-Dioxins	25.26	6.681e3	7.815e3	4.175e2	5.799e2	0.72	NO	9.974e2	0.26389	0.26389	0.242
12	Total Tetra-Dioxins	25.56	4.780e4	5.528e4	4.695e3	5.460e3	0.86	NO	1.016e4	2.6871	2.6871	0.242
13	Total Tetra-Dioxins	25.69	7.612e3	8.220e3	5.211e2	6.490e2	0.80	NO	1.170e3	0.30960	0.30960	0.242
14	2,3,7,8-TCDD	25.87	4.866e4	6.675e4	3.646e3	4.847e3	0.75	NO	8.493e3	2.2471	2.2471	0.242
15	Total Tetra-Dioxins	26.23	2.259e4	3.338e4	1.622e3	1.868e3	0.87	NO	3.491e3	0.92363	0.92363	0.242

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-8.qld

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Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.79	1.361e5	2.199e5	1.032e4	1.721e4	0.60	NO	2.752e4	9.0336	9.0336	0.318
2	Total Penta-Dioxins	29.28	5.448e4	7.235e4	2.919e3	4.293e3	0.68	NO	7.212e3	2.3672	2.3672	0.318
3	Total Penta-Dioxins	29.81	1.063e5	1.901e5	6.853e3	1.058e4	0.65	NO	1.744e4	5.7231	5.7231	0.318
4	Total Penta-Dioxins	29.98	6.007e4	1.121e5	3.223e3	5.641e3	0.57	NO	8.864e3	2.9092	2.9092	0.318
5	Total Penta-Dioxins	30.07	4.266e4	6.844e4	2.378e3	4.192e3	0.57	NO	6.570e3	2.1565	2.1565	0.318
6	Total Penta-Dioxins	30.30	6.530e4	1.073e5	6.201e3	9.874e3	0.63	NO	1.607e4	5.2758	5.2758	0.318
7	Total Penta-Dioxins	30.65	2.074e4	3.150e4	1.114e3	1.818e3	0.61	NO	2.932e3	0.96246	0.96246	0.318
8	Total Penta-Dioxins	30.80	8.357e3	1.442e4	3.655e2	3.716e2	0.98	YES	0.000e0	0.00000	0.19881	0.318
9	1,2,3,7,8-PeCDD	31.09	7.966e4	1.207e5	4.013e3	6.307e3	0.64	NO	1.032e4	3.3871	3.3871	0.318
10	Total Penta-Dioxins	31.16	3.031e4	4.843e4	1.644e3	2.325e3	0.71	NO	3.969e3	1.3028	1.3028	0.318
11	Total Penta-Dioxins	31.48	2.583e4	3.895e4	1.398e3	2.044e3	0.68	NO	3.442e3	1.1297	1.1297	0.318

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.02	3.972e6	3.100e6	1.788e5	1.447e5	1.24	NO	3.235e5	112.86	112.86	0.353
2	Total Hexa-Dioxins	33.58	4.588e5	3.646e5	2.132e4	1.684e4	1.27	NO	3.815e4	13.309	13.309	0.353
3	Total Hexa-Dioxins	33.82	3.137e6	2.527e6	1.894e5	1.527e5	1.24	NO	3.421e5	119.33	119.33	0.353
4	Total Hexa-Dioxins	33.93	1.453e5	1.025e5	6.360e3	5.607e3	1.13	NO	1.197e4	4.1747	4.1747	0.353
5	1,2,3,4,7,8-HxCDD	34.49	1.258e5	9.984e4	6.381e3	5.215e3	1.22	NO	1.160e4	3.8611	3.8611	0.325
6	1,2,3,6,7,8-HxCDD	34.59	8.533e5	6.872e5	4.631e4	3.837e4	1.21	NO	8.468e4	29.449	29.449	0.355
7	Total Hexa-Dioxins	34.76	1.748e5	1.384e5	9.107e3	7.626e3	1.19	NO	1.673e4	5.8371	5.8371	0.353
8	1,2,3,7,8,9-HxCDD	34.85	3.153e5	2.592e5	1.809e4	1.476e4	1.23	NO	3.285e4	10.736	10.736	0.340

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.27	3.114e7	3.057e7	2.276e6	2.211e6	1.03	NO	4.487e6	1559.9	1559.9	1.60
2	1,2,3,4,6,7,8-HpCDD	38.28	2.470e7	2.397e7	1.929e6	1.861e6	1.04	NO	3.790e6	1317.6	1317.6	1.60

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-8.qld

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Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.52	3.029e4	3.743e4	2.743e3	3.279e3	0.84	NO	6.023e3	1.3813	1.3813	0.478
2	Total Tetra-Furans	20.05	7.391e4	1.018e5	6.353e3	8.253e3	0.77	NO	1.461e4	3.3498	3.3498	0.478
3	Total Tetra-Furans	20.63	2.132e6	2.835e6	2.016e5	2.643e5	0.76	NO	4.660e5	106.87	106.87	0.478
4	Total Tetra-Furans	21.20	1.001e5	1.451e5	1.498e4	2.027e4	0.74	NO	3.525e4	8.0841	8.0841	0.478
5	Total Tetra-Furans	21.56	6.665e5	8.655e5	7.585e4	1.005e5	0.75	NO	1.763e5	40.437	40.437	0.478
6	Total Tetra-Furans	21.99	2.095e5	2.965e5	2.399e4	3.283e4	0.73	NO	5.682e4	13.031	13.031	0.478
7	Total Tetra-Furans	22.11	2.966e4	3.880e4	2.851e3	4.148e3	0.69	NO	6.998e3	1.6051	1.6051	0.478
8	Total Tetra-Furans	22.40	2.303e5	3.073e5	1.308e4	1.664e4	0.79	NO	2.972e4	6.8161	6.8161	0.478
9	Total Tetra-Furans	22.77	2.467e4	4.343e4	2.700e3	3.826e3	0.71	NO	6.526e3	1.4967	1.4967	0.478
10	Total Tetra-Furans	22.92	3.119e4	3.848e4	2.287e3	2.890e3	0.79	NO	5.177e3	1.1874	1.1874	0.478
11	Total Tetra-Furans	23.15	2.747e5	3.557e5	2.019e4	2.650e4	0.76	NO	4.668e4	10.707	10.707	0.478
12	Total Tetra-Furans	23.22	5.165e5	7.032e5	5.752e4	7.579e4	0.76	NO	1.333e5	30.573	30.573	0.478
13	Total Tetra-Furans	23.82	3.703e6	4.825e6	3.125e5	4.109e5	0.76	NO	7.234e5	165.92	165.92	0.478 P
14	Total Tetra-Furans	24.12	1.131e5	1.608e5	1.046e4	1.422e4	0.74	NO	2.468e4	5.6613	5.6613	0.478
15	Total Tetra-Furans	24.36	3.309e4	5.150e4	3.167e3	4.427e3	0.72	NO	7.594e3	1.7417	1.7417	0.478
16	Total Tetra-Furans	24.61	5.204e4	5.748e4	3.642e3	4.542e3	0.80	NO	8.184e3	1.8771	1.8771	0.478
17	Total Tetra-Furans	24.75	5.968e5	8.031e5	4.333e4	5.659e4	0.77	NO	9.992e4	22.917	22.917	0.478
18	2,3,7,8-TCDF	24.88	3.660e6	4.846e6	3.382e5	4.432e5	0.76	NO	7.814e5	179.21	179.21	0.478
19	Total Tetra-Furans	25.29	2.078e5	2.897e5	1.662e4	2.109e4	0.79	NO	3.771e4	8.6497	8.6497	0.478
20	Total Tetra-Furans	25.56	3.225e4	4.148e4	3.120e3	3.774e3	0.83	NO	6.894e3	1.5812	1.5812	0.478
21	Total Tetra-Furans	26.42	3.668e4	2.213e4	2.743e3	1.686e3	1.63	YES	0.000e0	0.00000	0.68454	0.478
22	Total Tetra-Furans	26.56	7.902e4	9.670e4	7.324e3	7.298e3	1.00	YES	0.000e0	0.00000	2.9628	0.478 P
23	Total Tetra-Furans	26.74	9.934e4	1.196e5	7.773e3	9.174e3	0.85	NO	1.695e4	3.8866	3.8866	0.478 P
24	Total Tetra-Furans	27.05	5.903e5	5.858e5	5.061e4	4.927e4	1.03	YES	0.000e0	0.00000	20.000	0.478

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.08	2.564e6	1.639e6	1.813e5	1.150e5	1.58	NO	2.963e5	70.501	70.501	0.104

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Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.58	1.916e5	1.263e5	1.176e4	7.915e3	1.49	NO	1.968e4	4.6820	4.6820	0.250
2	Total Penta-Furans	28.73	5.466e6	3.435e6	3.634e5	2.305e5	1.58	NO	5.939e5	141.32	141.32	0.250
3	Total Penta-Furans	29.34	7.516e5	4.687e5	4.585e4	2.868e4	1.60	NO	0.000e0	0.00000	17.735	0.250
4	Total Penta-Furans	29.39	1.862e5	1.286e5	7.341e3	4.729e3	1.55	NO	0.000e0	0.00000	2.8722	0.250
5	Total Penta-Furans	29.55	1.384e6	8.437e5	7.577e4	4.696e4	1.61	NO	1.227e5	29.205	29.205	0.250
6	1,2,3,7,8-PeCDF	29.75	1.191e7	7.734e6	6.843e5	4.463e5	1.53	NO	1.131e6	264.57	264.57	0.253
7	Total Penta-Furans	29.86	1.119e5	7.901e4	4.432e3	2.552e3	1.74	NO	6.984e3	1.6620	1.6620	0.250
8	Total Penta-Furans	30.03	4.518e6	2.858e6	2.454e5	1.548e5	1.58	NO	4.003e5	95.247	95.247	0.250
9	Total Penta-Furans	30.67	1.044e5	6.143e4	5.365e3	3.436e3	1.56	NO	8.801e3	2.0942	2.0942	0.250
10	2,3,4,7,8-PeCDF	30.77	6.208e6	3.973e6	3.095e5	1.995e5	1.55	NO	5.090e5	117.79	117.79	0.237
11	Total Penta-Furans	30.80	3.510e6	2.257e6	7.557e4	4.587e4	1.65	NO	1.214e5	28.898	28.898	0.250
12	Total Penta-Furans	31.72	3.058e5	1.943e5	1.887e4	1.160e4	1.63	NO	3.047e4	7.2505	7.2505	0.250

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.47	1.123e5	9.641e4	9.873e3	7.246e3	1.36	NO	1.712e4	4.4555	4.4555	0.246
2	Total Hexa-Furans	32.62	6.802e5	5.922e5	2.509e4	2.060e4	1.22	NO	4.568e4	11.889	11.889	0.246
3	Total Hexa-Furans	32.69	6.258e6	5.076e6	1.870e5	1.516e5	1.23	NO	3.386e5	88.125	88.125	0.246
4	Total Hexa-Furans	32.99	6.692e4	5.819e4	3.100e3	2.670e3	1.16	NO	5.770e3	1.5017	1.5017	0.246
5	Total Hexa-Furans	33.18	4.929e6	4.003e6	2.291e5	1.885e5	1.22	NO	4.175e5	108.67	108.67	0.246
6	Total Hexa-Furans	33.26	4.799e4	4.432e4	2.132e3	1.806e3	1.18	NO	3.938e3	1.0248	1.0248	0.246
7	Total Hexa-Furans	33.39	2.688e4	2.303e4	1.553e3	1.357e3	1.14	NO	2.910e3	0.75749	0.75749	0.246
8	Total Hexa-Furans	33.53	2.167e5	1.894e5	9.795e3	8.103e3	1.21	NO	1.790e4	4.6584	4.6584	0.246
9	1,2,3,4,7,8-HxCDF	33.64	1.755e7	1.429e7	8.611e5	7.076e5	1.22	NO	1.569e6	428.80	428.80	0.236
10	1,2,3,6,7,8-HxCDF	33.75	4.588e6	3.839e6	2.291e5	1.890e5	1.21	NO	4.181e5	112.02	112.02	0.233
11	Total Hexa-Furans	34.01	1.018e5	8.658e4	4.952e3	4.125e3	1.20	NO	9.077e3	2.3625	2.3625	0.246
12	Total Hexa-Furans	34.12	1.491e4	1.385e4	7.171e2	6.578e2	1.09	NO	1.375e3	0.35783	0.35783	0.246
13	Total Hexa-Furans	34.22	5.017e4	3.632e4	2.070e3	1.641e3	1.26	NO	3.711e3	0.96578	0.96578	0.246
14	2,3,4,6,7,8-HxCDF	34.32	1.147e6	9.532e5	6.337e4	5.102e4	1.24	NO	1.144e5	29.532	29.532	0.263
15	1,2,3,7,8,9-HxCDF	35.23	1.537e6	1.245e6	8.028e4	6.654e4	1.21	NO	1.468e5	43.110	43.110	0.302
16	Total Hexa-Furans	35.25	9.648e5	7.465e5	1.633e4	1.200e4	1.36	NO	2.833e4	7.3737	7.3737	0.246

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-8.qld

Last Altered: Thursday, March 19, 2020 4:50:03 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 4:50:24 PM Pacific Daylight Time

Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.89	6.857e6	6.774e6	4.774e5	4.718e5	1.01	NO	9.492e5	298.58	298.58	0.452
2	Total Hepta-Furans	37.26	1.007e5	1.087e5	6.650e3	7.047e3	0.94	NO	1.370e4	4.8856	4.8856	0.512
3	Total Hepta-Furans	37.46	1.006e7	1.002e7	7.665e5	7.574e5	1.01	NO	1.524e6	543.54	543.54	0.512
4	1,2,3,4,7,8,9-HpCDF	38.93	1.730e6	1.748e6	1.183e5	1.168e5	1.01	NO	2.352e5	83.920	83.920	0.511

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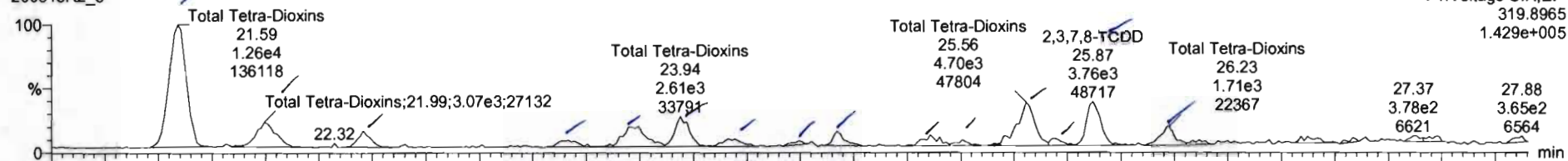
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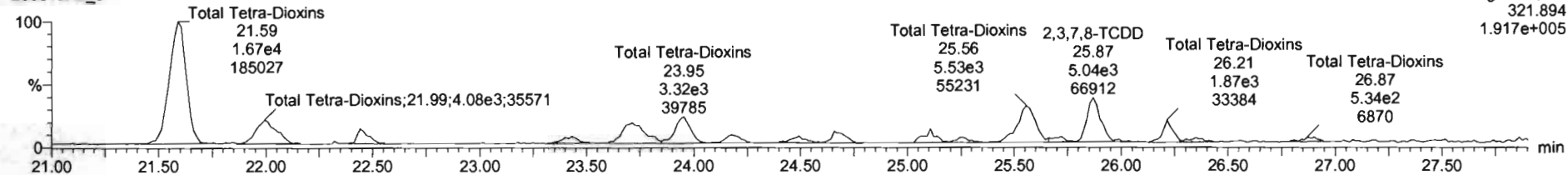
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2,3,7,8-TCDD

200318R2_8

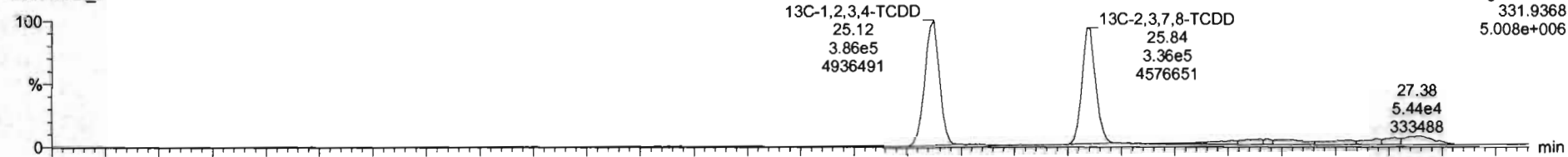


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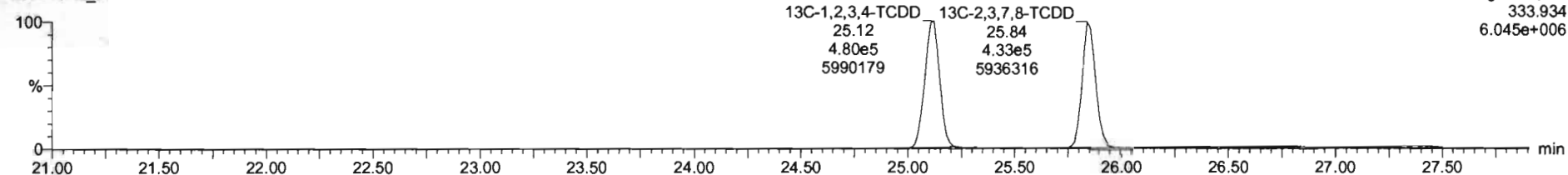


13C-2,3,7,8-TCDD

200318R2_8



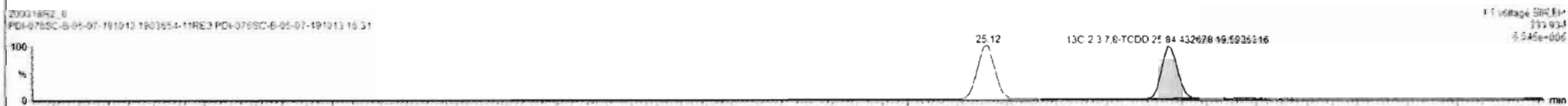
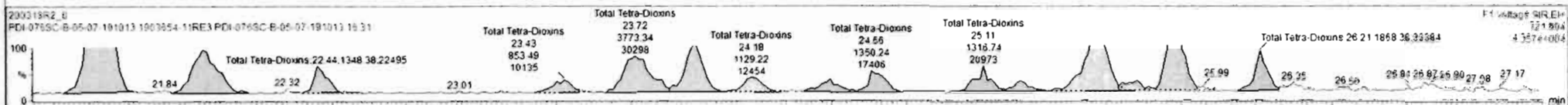
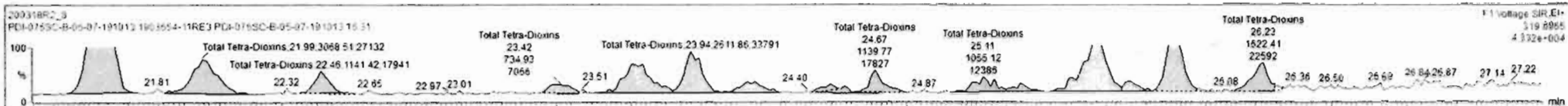
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200318R2_8 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 PDI-076SC-B-05-07-191013

SI	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9635	10.004			22.7		0.242	22.7
40	Total Penta-Dioxins				0.9212	10.004			34.4		0.318	34.8

SI	Name	RT	m1 Reso	m2 Reso	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	21.59	1.263e4	1.675e4	0.75	NO	7.7735	7.7735
2	Total Tetra-Dioxins	21.99	3.065e3	4.084e3	0.75	NO	1.8925	1.8925
3	Total Tetra-Dioxins	22.46	1.141e3	1.348e3	0.85	NO	0.65878	0.65878
4	Total Tetra-Dioxins	22.42	7.349e2	8.535e2	0.86	NO	0.42028	0.42028
5	Total Tetra-Dioxins	23.74	2.605e3	3.773e3	0.77	NO	1.7670	1.7670
6	Total Tetra-Dioxins	23.94	2.612e3	3.317e3	0.79	NO	1.5686	1.5686
7	Total Tetra-Dioxins	24.16	5.050e2	1.129e3	0.60	NO	0.53930	0.53930
8	Total Tetra-Dioxins	24.48	6.077e2	8.497e2	0.72	NO	0.38562	0.38562
9	Total Tetra-Dioxins	24.67	1.140e3	1.350e3	0.84	NO	0.65884	0.65884
10	Total Tetra-Dioxins	25.11	1.055e3	1.217e3	0.60	NO	0.62757	0.62757
11	Total Tetra-Dioxins	25.26	4.175e2	5.799e2	0.72	NO	0.28389	0.28389
12	Total Tetra-Dioxins	25.56	4.695e2	5.460e3	0.86	NO	2.5871	2.5871
13	Total Tetra-Dioxins	25.65	5.211e2	6.490e2	0.60	NO	0.30960	0.30960
14	2,3,7,8-TCDD	25.67	3.646e3	4.847e3	0.75	NO	2.2471	2.2471
15	Total Tetra-Dioxins	26.23	1.622e3	1.668e3	0.87	NO	0.92363	0.92363



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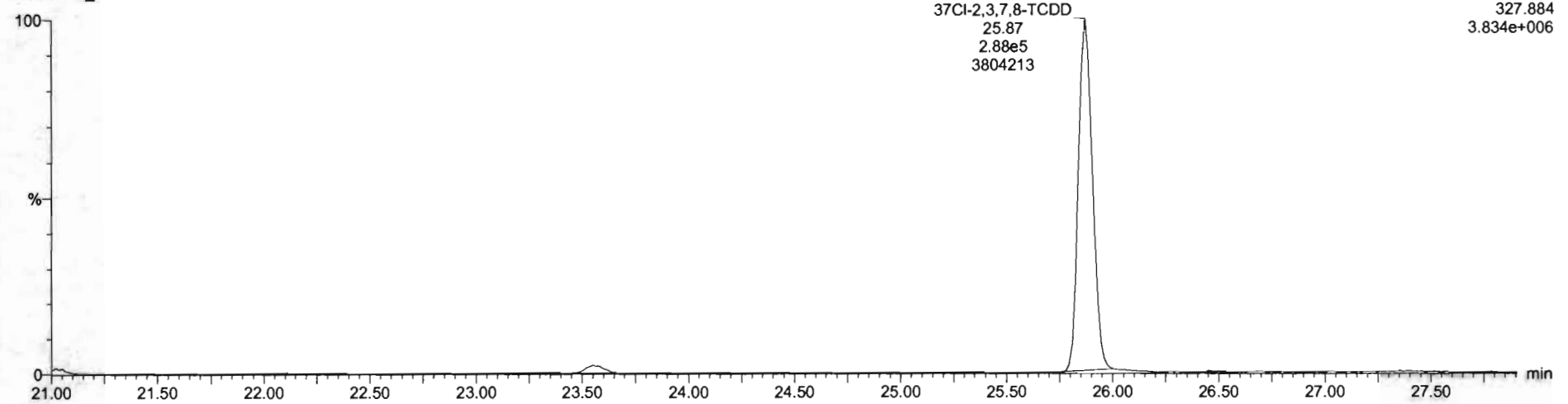
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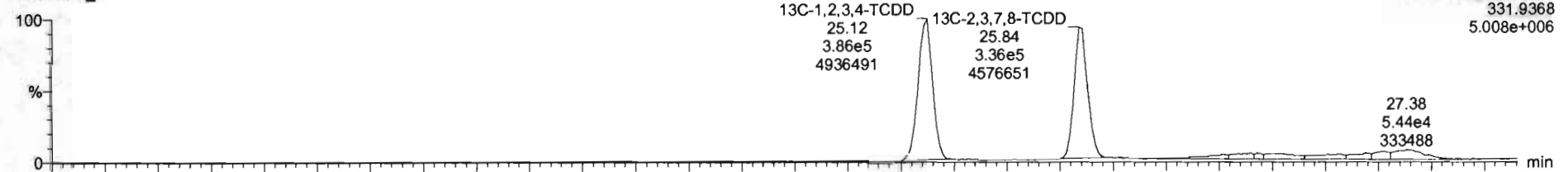
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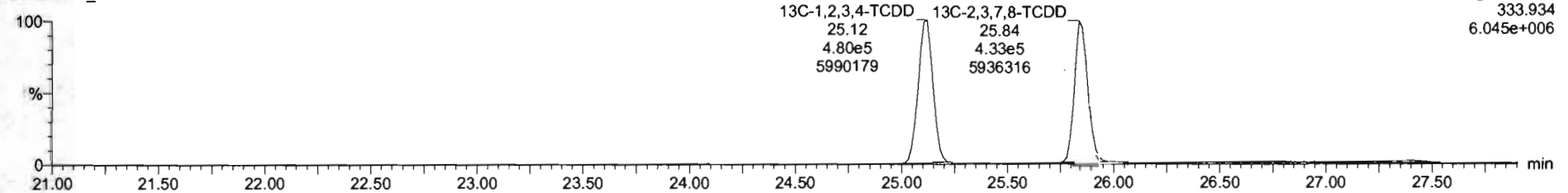


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200318R2_8



200318R2_8



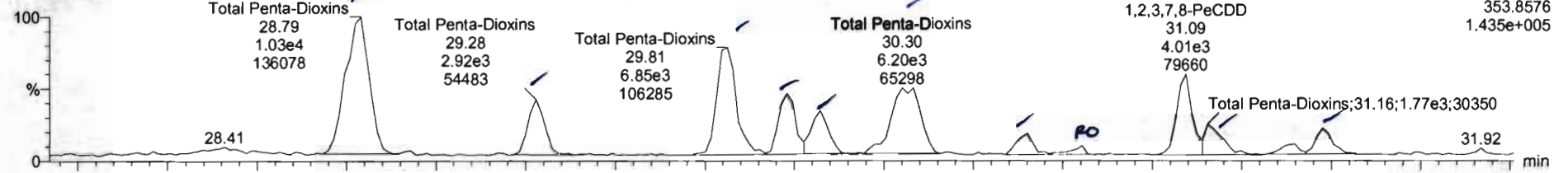
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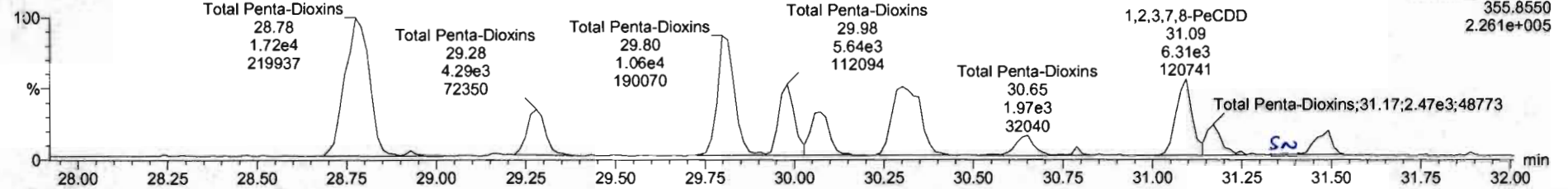
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1,2,3,7,8-PeCDD

200318R2_8

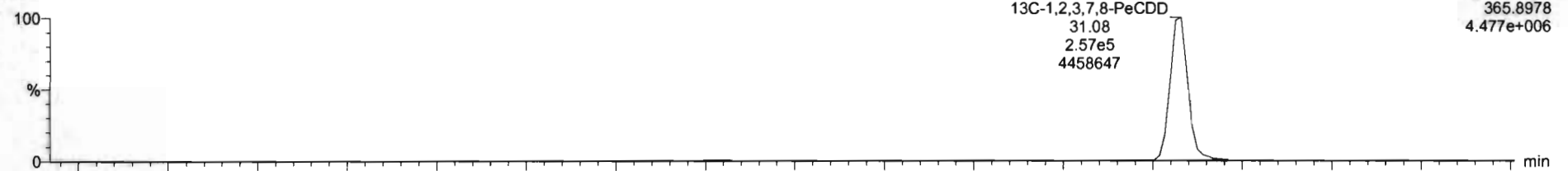


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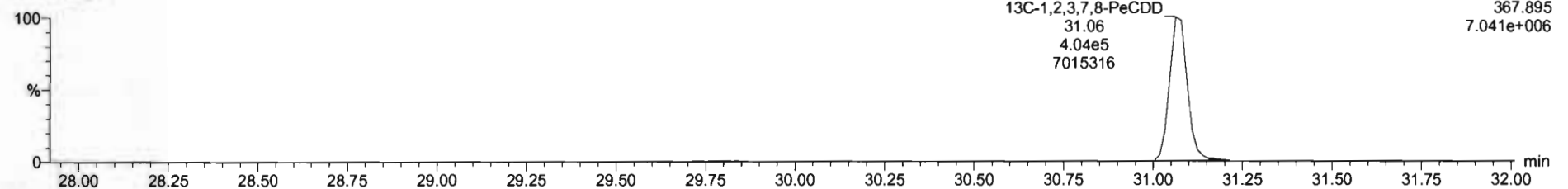


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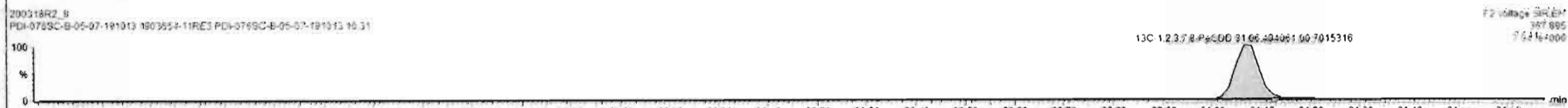
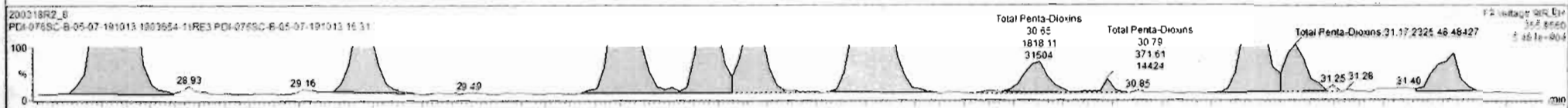
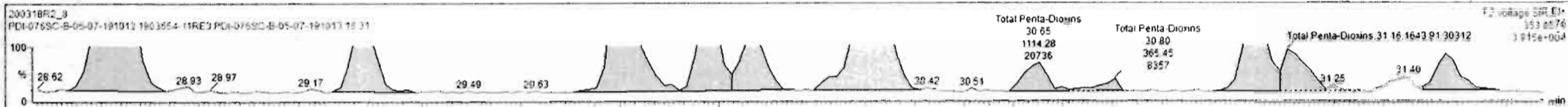
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200318R2_8 - 1903654 11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.004			22.7		0.242	22.7
40 Total Penta-Dioxins				0.8212	10.004			34.2		0.318	34.4

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Dioxins	28.79	1.032e4	1.721e4	0.60	NO	8.0396	9.0338
2 Total Penta-Dioxins	29.26	2.519e3	4.293e3	0.68	NO	2.3672	2.3672
3 Total Penta-Dioxins	29.61	6.850e3	1.058e4	0.65	NO	5.7231	5.7231
4 Total Penta-Dioxins	29.98	3.223e3	5.641e3	0.57	NO	2.9692	2.9692
5 Total Penta-Dioxins	30.07	2.378e3	4.192e3	0.57	NO	2.1565	2.1565
6 Total Penta-Dioxins	30.30	6.201e3	9.874e3	0.63	NO	5.2755	5.2755
7 Total Penta-Dioxins	30.65	1.114e3	1.818e3	0.61	NO	0.96246	0.96246
8 Total Penta-Dioxins	30.80	3.655e2	2.718e2	0.98	YES	0.19681	0.00000
9 1,2,3,7,8-PeCDD	31.09	4.013e3	6.307e3	0.64	NO	3.2671	3.3871
10 Total Penta-Dioxins	31.16	1.644e3	3.325e2	0.71	NO	1.3638	1.5028
11 Total Penta-Dioxins	31.48	1.398e3	2.044e3	0.68	NO	1.1297	1.1297



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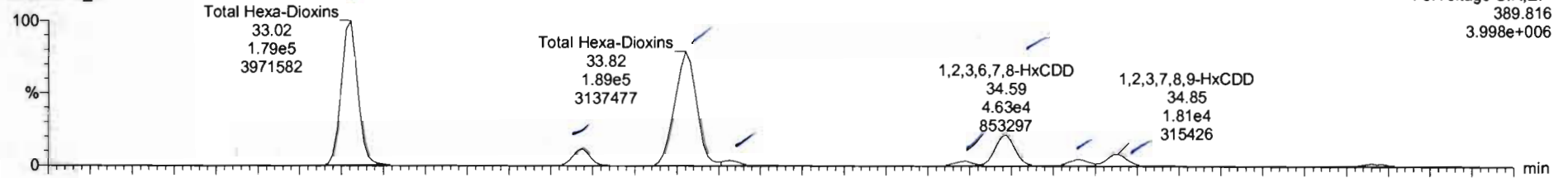
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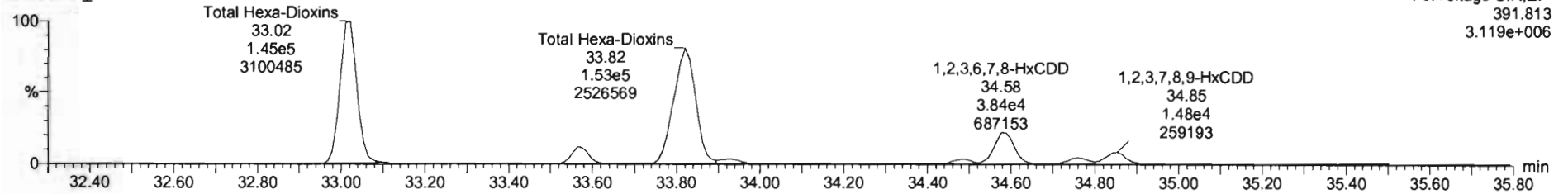
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1,2,3,4,7,8-HxCDD

200318R2_8

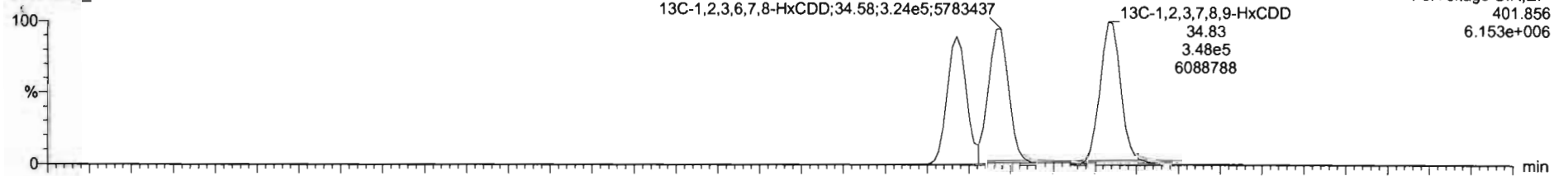


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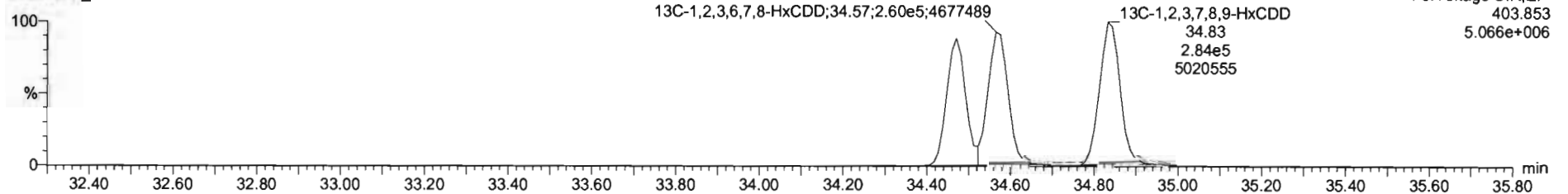


13C-1,2,3,4,7,8-HxCDD

200318R2_8



200318R2_8



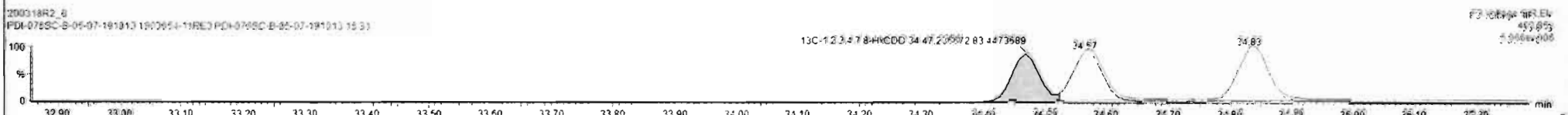
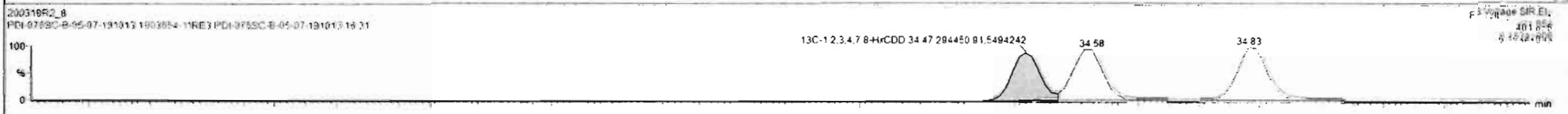
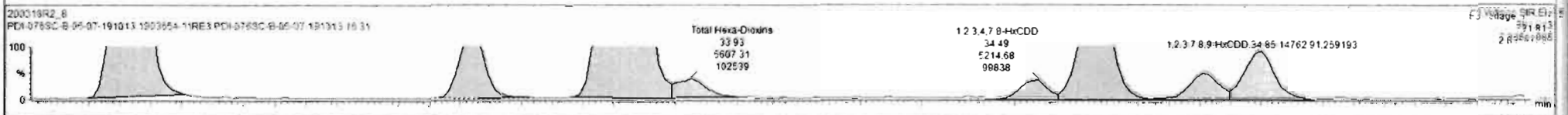
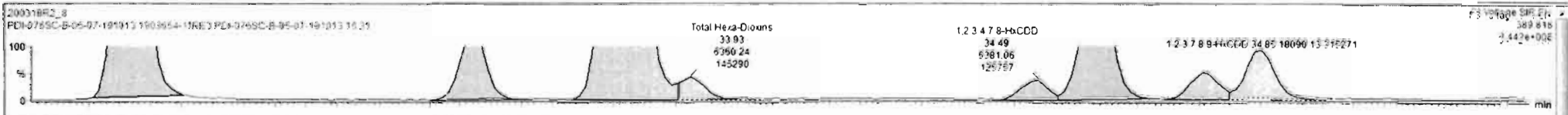
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200318R2_8 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

Name	Resp	RA	nly	RRF	wt/wol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9825	10.004			22.7		0.242	22.7
40 Total Penta-Dioxins				0.9212	10.004			34.2		0.316	34.2

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	33.02	1.786e5	1.447e5	1.24	NO	112.86	112.86
2 Total Hexa-Dioxins	33.56	2.132e4	1.684e4	1.27	NO	13.309	13.309
3 Total Hexa-Dioxins	33.62	1.294e5	1.527e5	1.24	NO	119.33	119.33
4 Total Hexa-Dioxins	33.93	6.360e3	5.607e3	1.13	NO	4.1747	4.1747
5 1,2,3,4,7,8-HxCDD	34.49	6.361e3	5.215e3	1.22	NO	3.8611	3.8611
6 1,2,3,6,7,8-HxCDD	34.59	4.631e4	3.837e4	1.21	NO	29.449	29.449
7 Total Hexa-Dioxins	34.76	9.107e3	7.626e3	1.19	NO	5.8271	5.8271
8 1,2,3,7,8,9-HxCDD	34.85	1.809e4	1.476e4	1.23	NO	10.736	10.736



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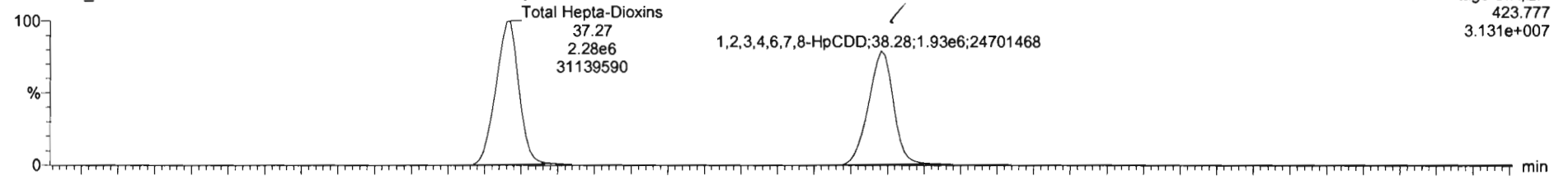
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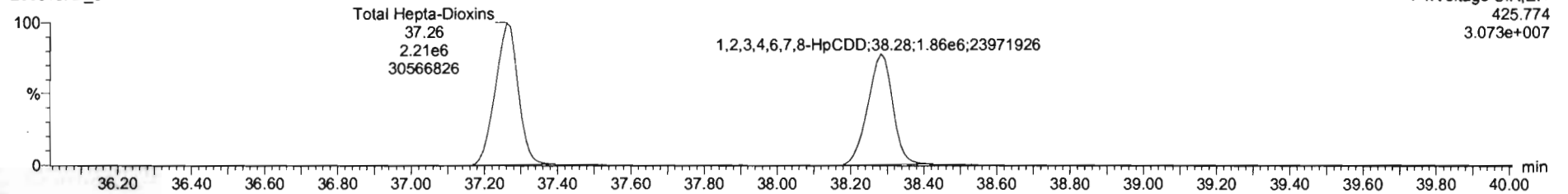
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1,2,3,4,6,7,8-HpCDD

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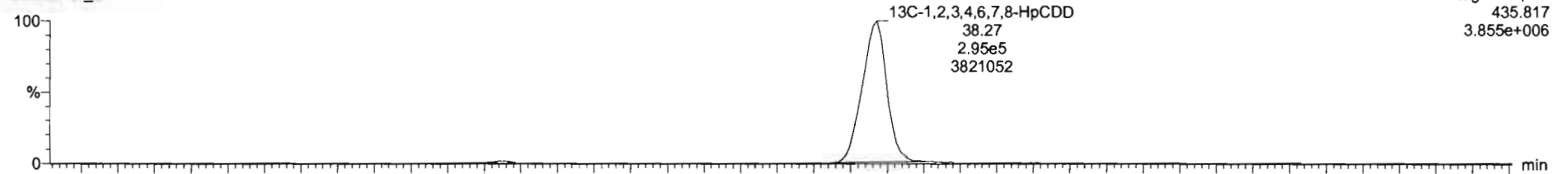


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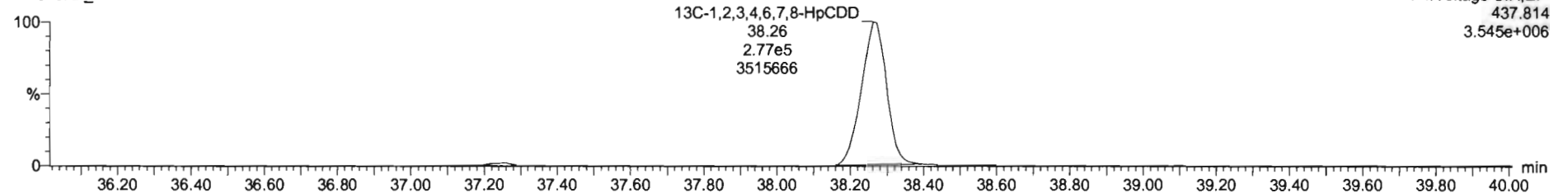


13C-1,2,3,4,6,7,8-HpCDD

200318R2_8



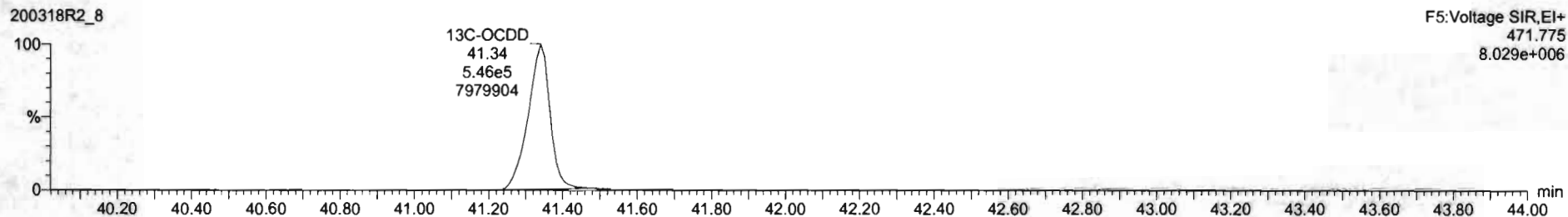
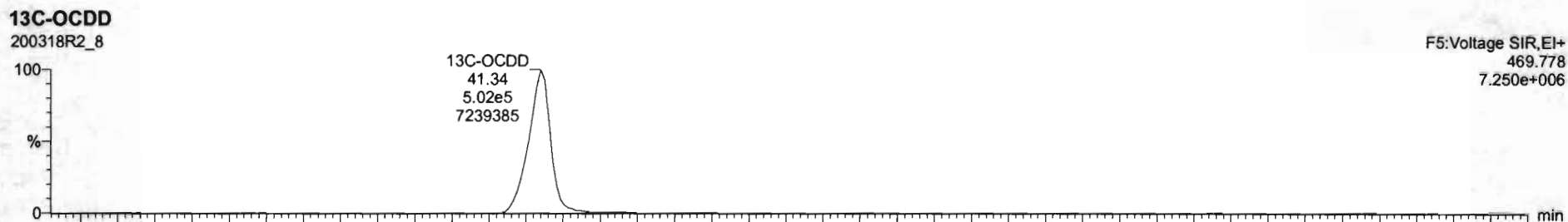
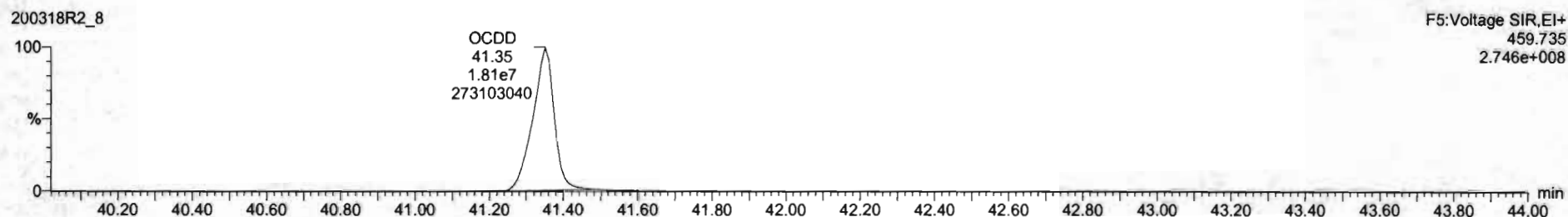
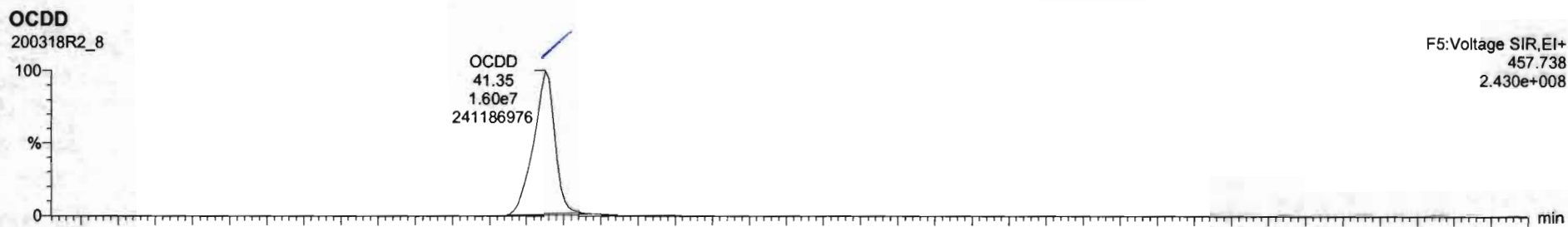
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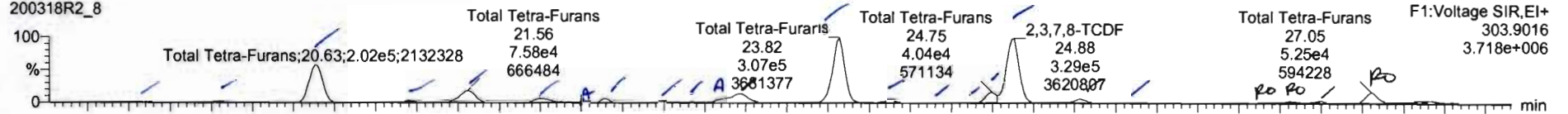
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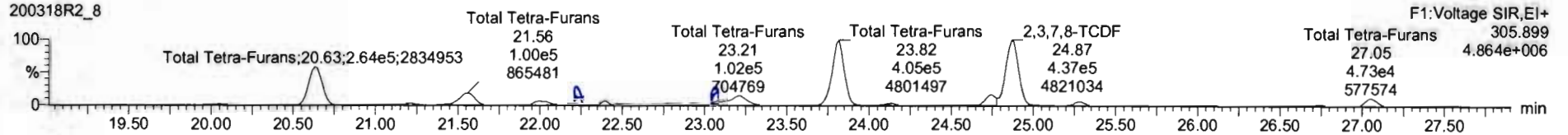
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2,3,7,8-TCDF

200318R2_8

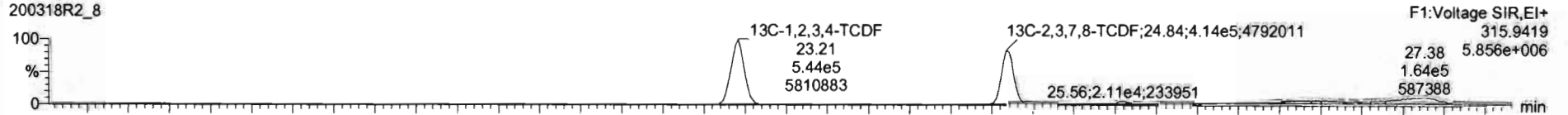


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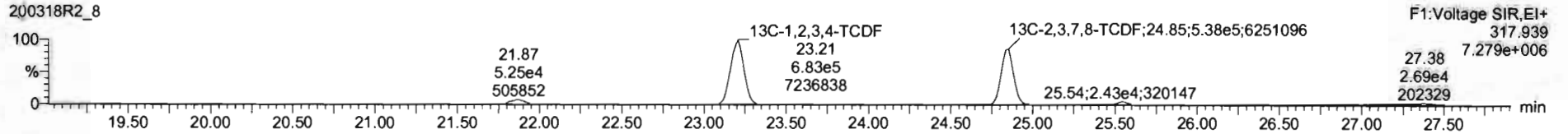


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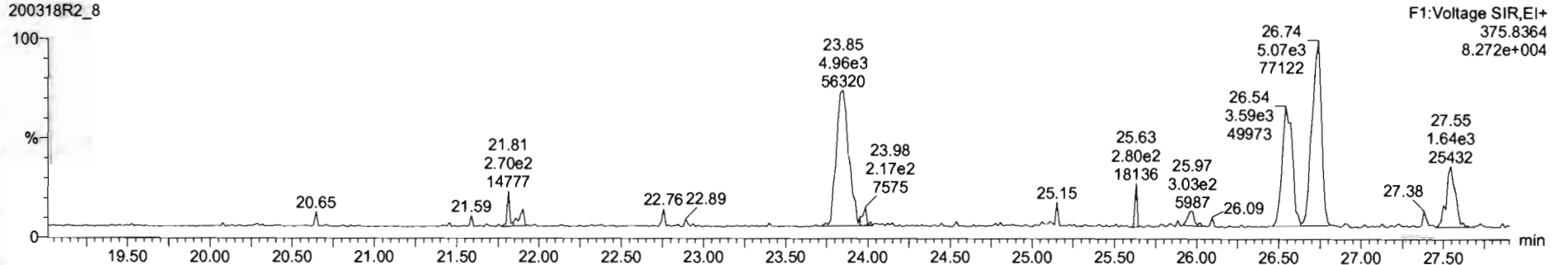


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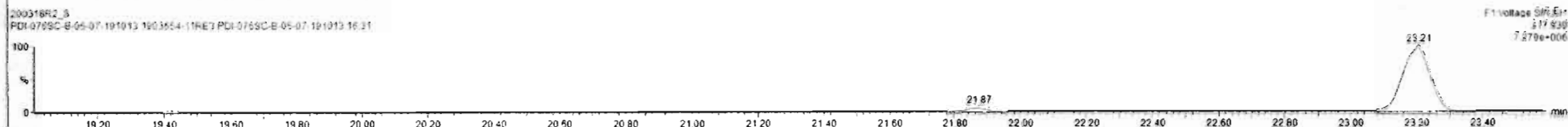
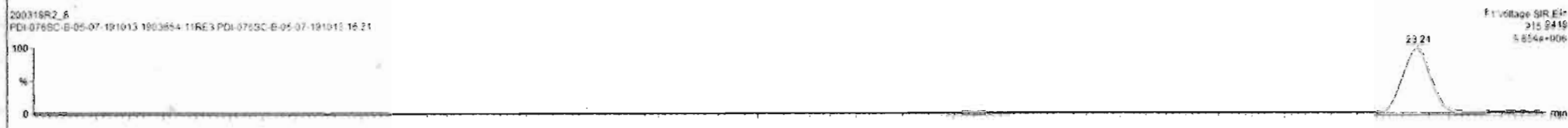
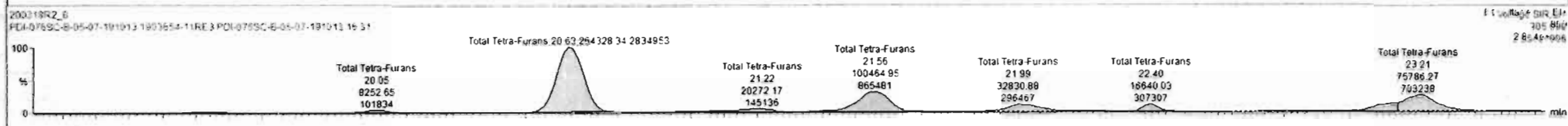
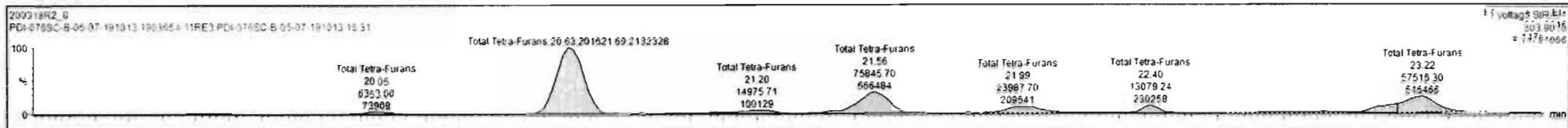
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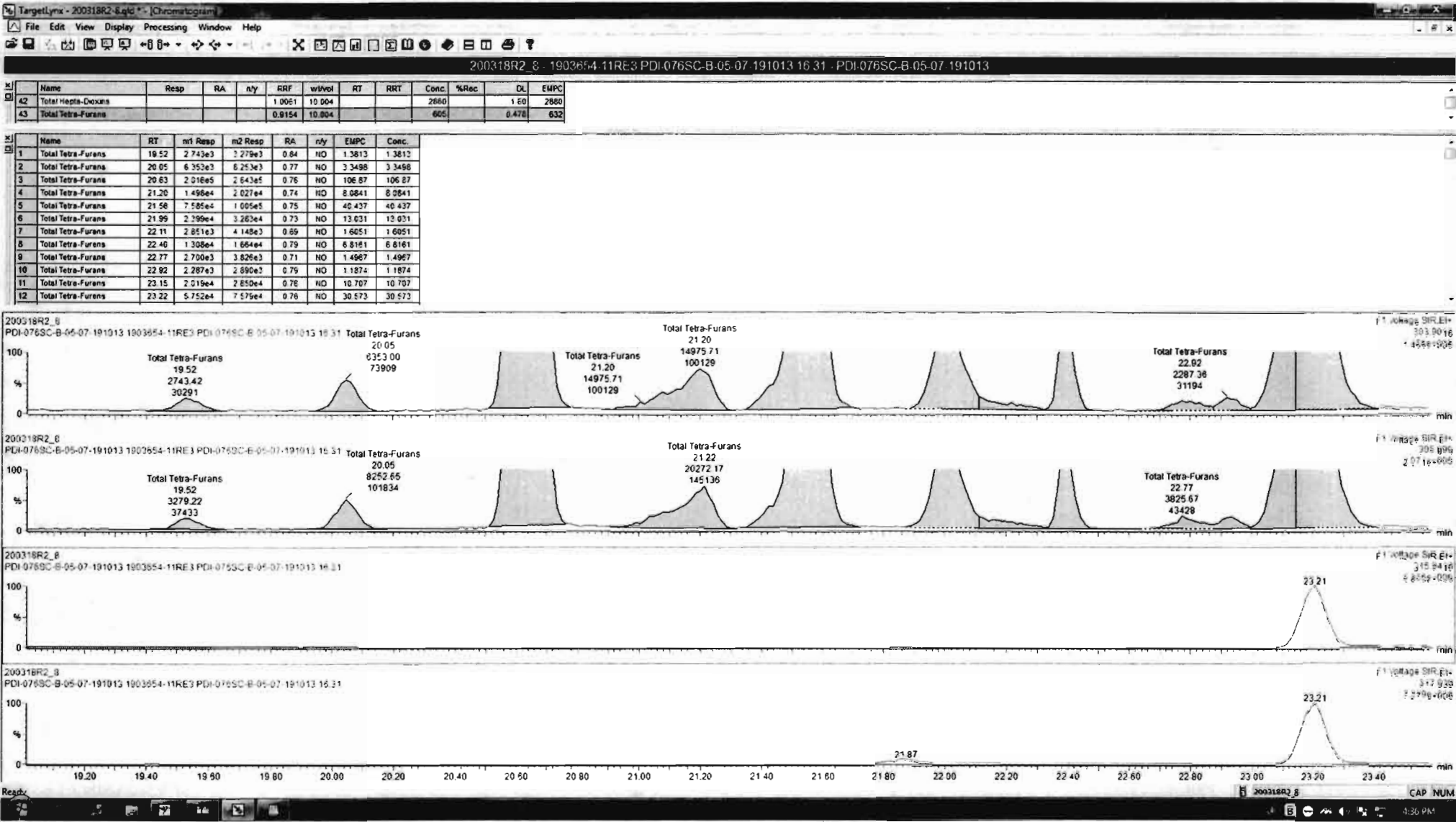
200318R2_8



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins			1.0051	10.004			2860		1.50	2860
43	Total Tetra-Furans			0.9154	10.004			605		0.478	632

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Tetra-Furans	19.52	2.743e3	3.279e3	0.84	NO	1.3813	1.3813
2	Total Tetra-Furans	20.05	6.353e3	8.253e3	0.77	NO	3.3498	3.3498
3	Total Tetra-Furans	20.63	2.016e5	2.643e5	0.76	NO	106.87	106.87
4	Total Tetra-Furans	21.20	1.498e4	3.027e4	0.74	NO	8.0841	8.0841
5	Total Tetra-Furans	21.56	7.585e4	1.005e5	0.75	NO	40.437	40.437
6	Total Tetra-Furans	21.99	2.399e4	3.283e4	0.73	NO	13.031	13.031
7	Total Tetra-Furans	22.11	2.851e3	4.148e3	0.69	NO	1.6051	1.6051
8	Total Tetra-Furans	22.40	1.308e4	1.664e4	0.79	NO	6.8151	6.8151
9	Total Tetra-Furans	22.77	2.700e3	3.826e3	0.71	NO	1.4967	1.4967
10	Total Tetra-Furans	22.92	2.287e3	2.890e3	0.79	NO	1.1874	1.1874
11	Total Tetra-Furans	23.15	2.019e4	2.650e4	0.76	NO	10.707	10.707
12	Total Tetra-Furans	23.22	5.752e4	7.576e4	0.76	NO	30.573	30.573

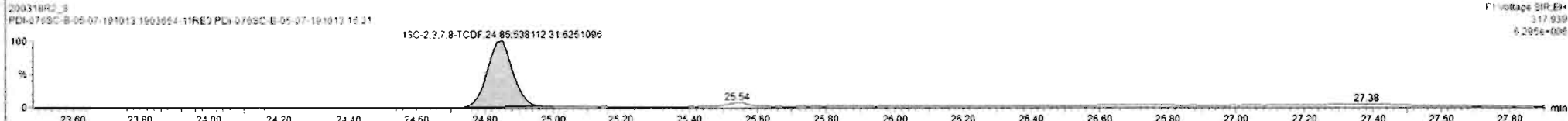
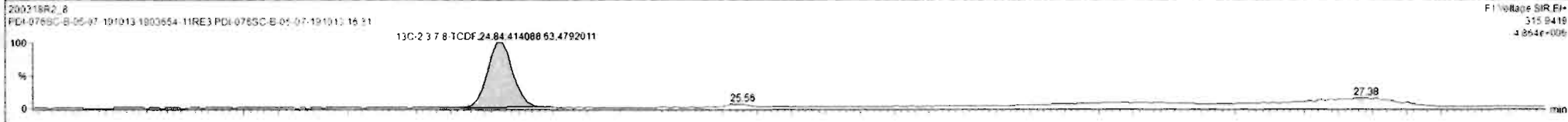


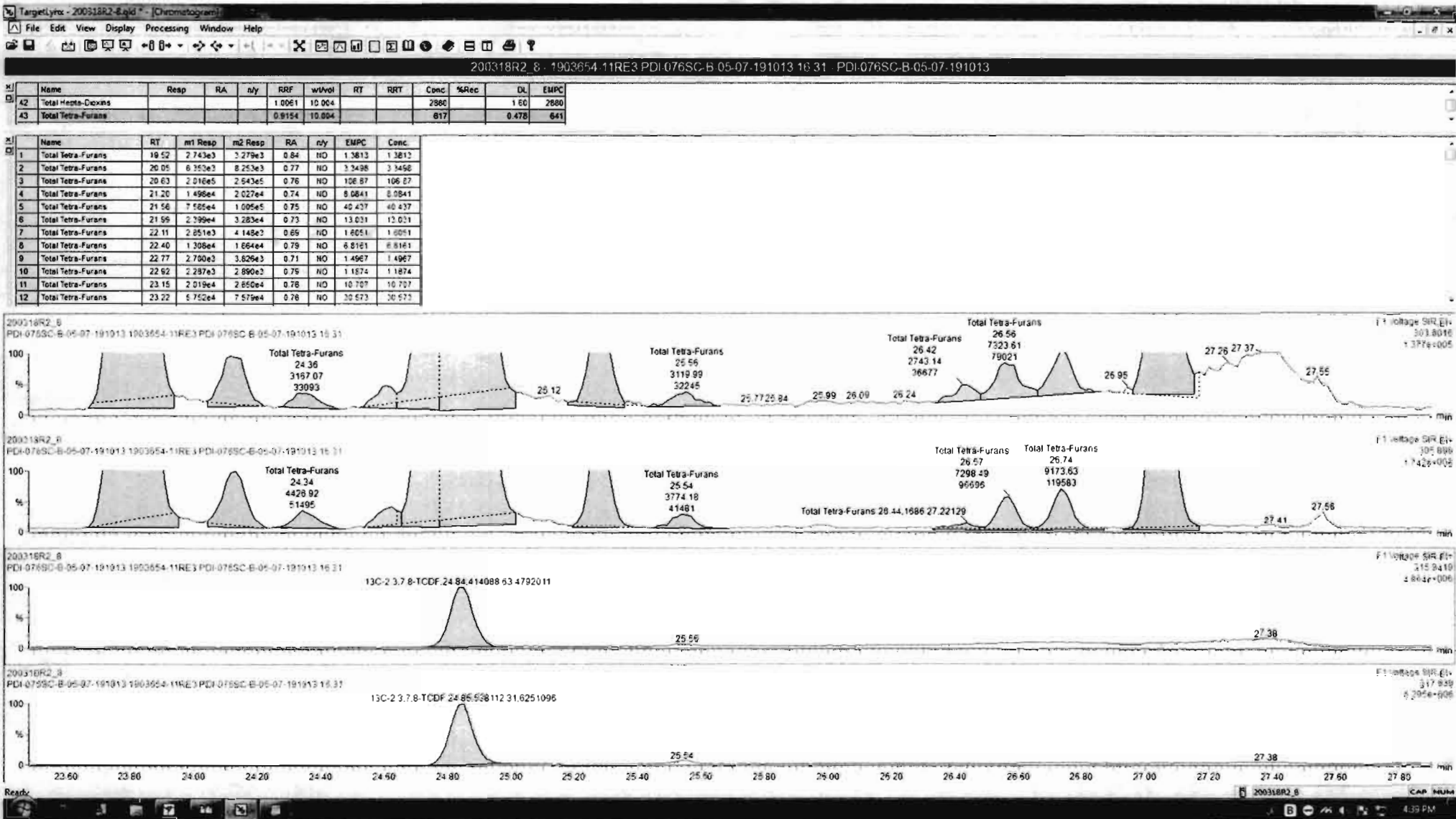


200318R2_8 - 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Oxines				1.0061	10.004			2860		1.60	2830
43 Total Tetra-Furans				0.9154	10.004			616		0.478	640

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
13 Total Tetra-Furans	23.82	3.093e5	4.169e5	0.75	NO	165.18	165.18
14 Total Tetra-Furans	24.12	1.046e4	1.422e4	0.74	NO	5.6613	5.6613
15 Total Tetra-Furans	24.36	3.167e3	4.427e3	0.72	NO	1.7417	1.7417
16 Total Tetra-Furans	24.61	3.842e3	4.542e3	0.80	NO	1.8771	1.8771
17 Total Tetra-Furans	24.75	4.333e4	5.656e4	0.77	NO	22.917	22.917
18 2,3,7,8-TCDF	24.88	3.382e5	4.432e5	0.76	NO	179.21	179.21
19 Total Tetra-Furans	25.29	1.662e4	2.109e4	0.79	NO	8.6497	8.6497
20 Total Tetra-Furans	25.56	3.120e3	3.774e3	0.82	NO	1.5812	1.5812
21 Total Tetra-Furans	26.42	2.743e3	1.686e3	1.63	YES	0.68454	0.00000
22 Total Tetra-Furans	26.56	7.324e3	7.298e3	1.00	YES	2.9626	0.00000
23 Total Tetra-Furans	26.74	7.773e3	9.174e3	0.85	NO	3.8866	3.8866
24 Total Tetra-Furans	27.05	5.061e4	4.927e4	1.03	YES	20.000	0.00000





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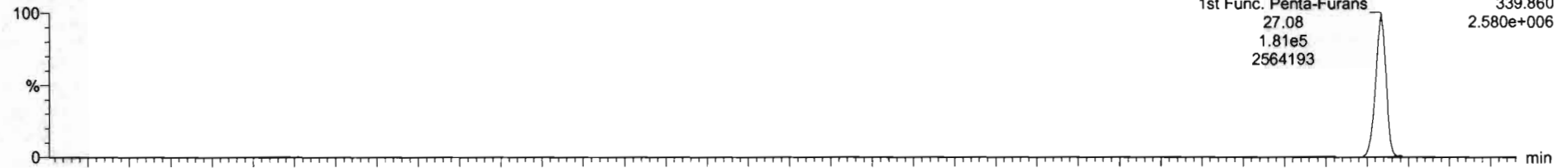
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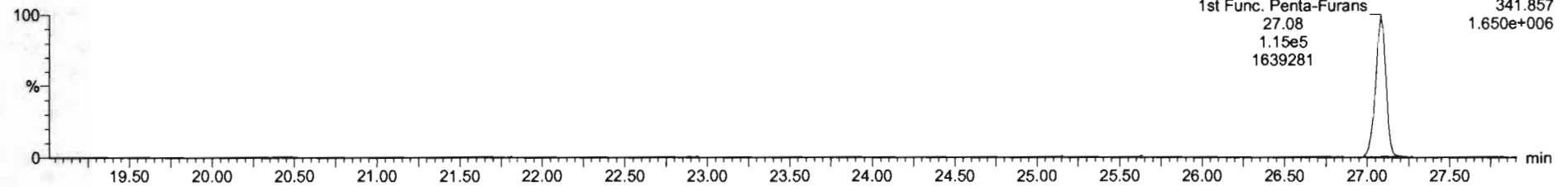
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1st Func. Penta-Furans

200318R2_8

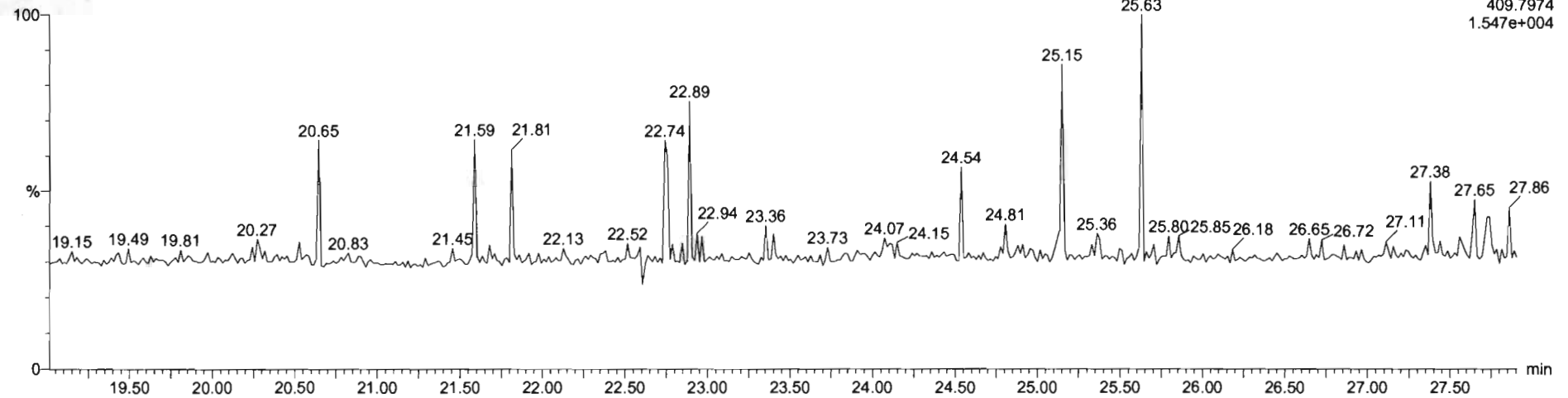


200318R2_8



DPE6

200318R2_8



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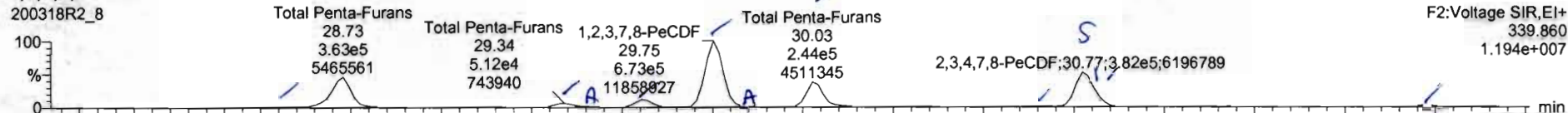
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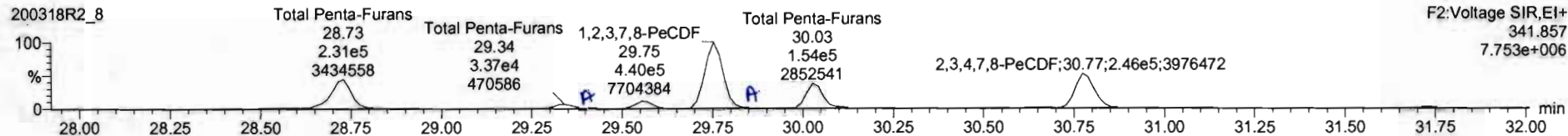
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1,2,3,7,8-PeCDF

200318R2_8

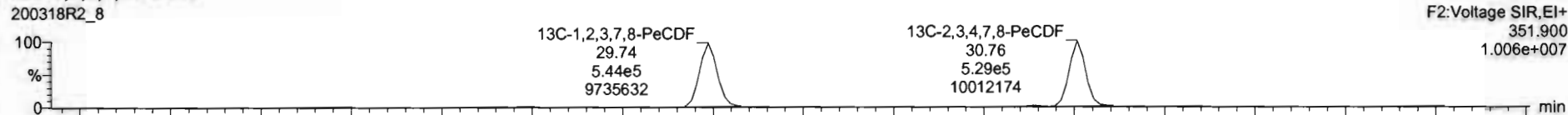


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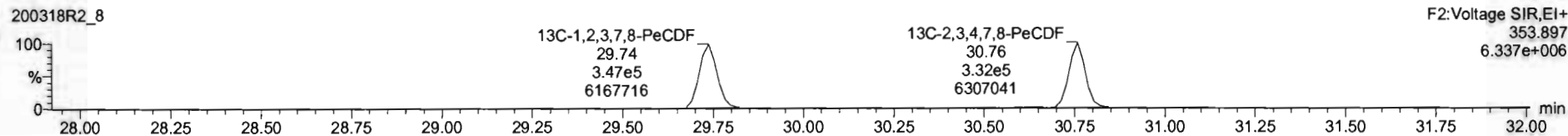


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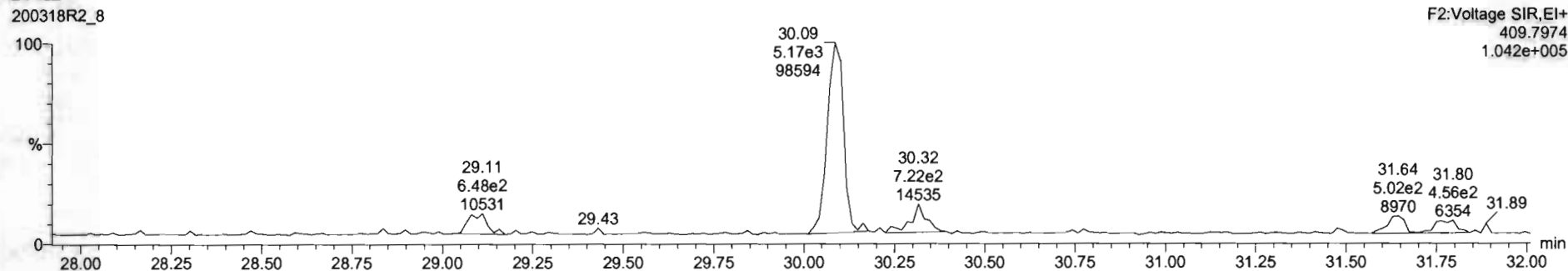


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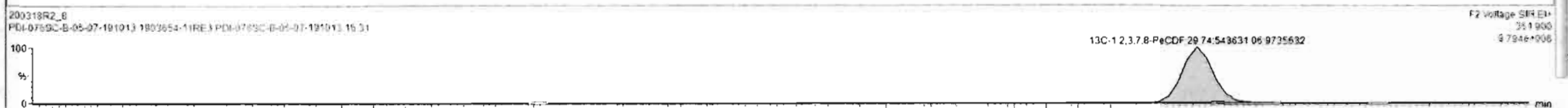
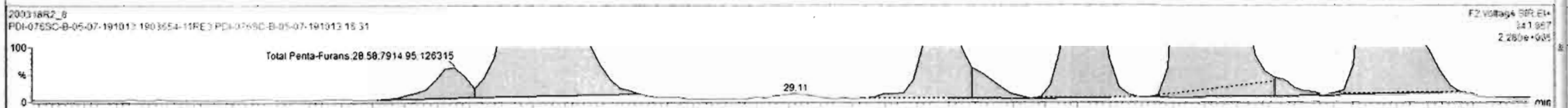
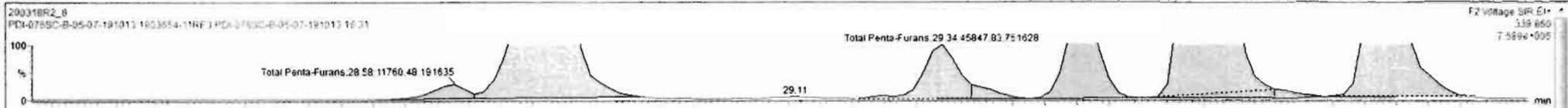
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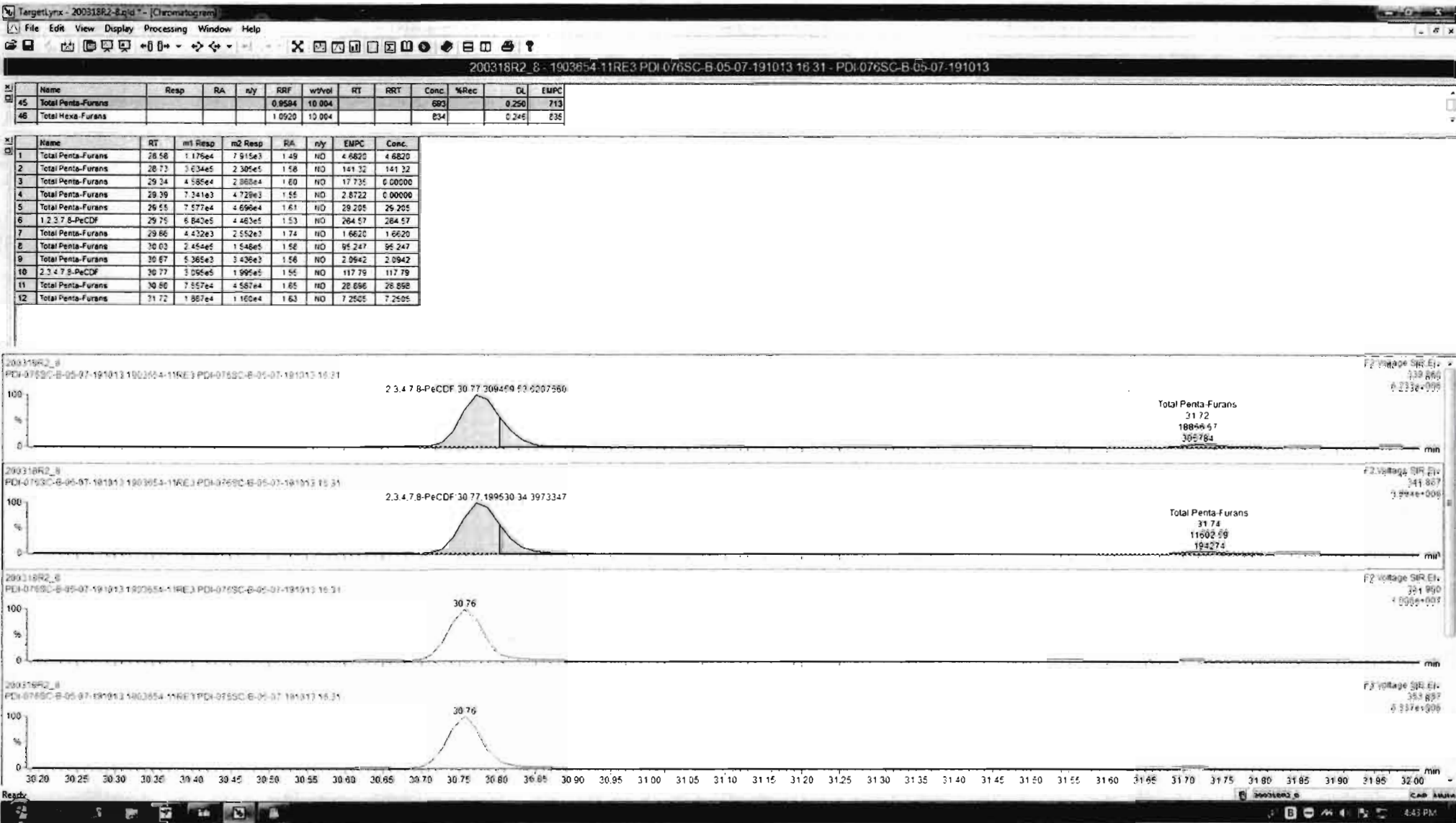
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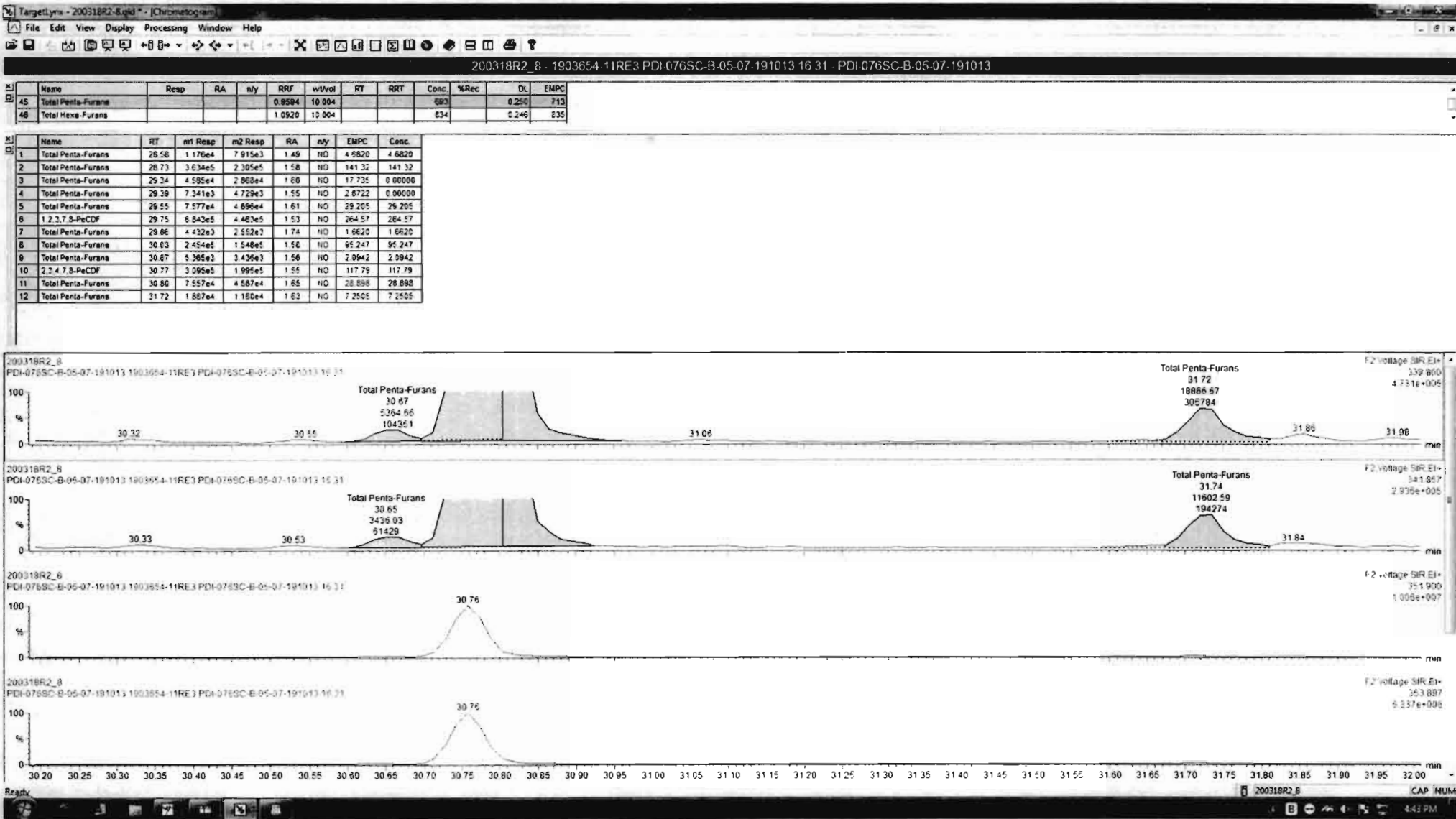


Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.004			693		0.250	715
46 Total Hexa-Furans				1.0920	10.004			834		0.246	835

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.58	1.176e4	7.915e3	1.49	NO	4.6820	4.6820
2 Total Penta-Furans	28.73	3.634e5	2.305e5	1.58	NO	141.32	141.32
3 Total Penta-Furans	29.34	4.585e4	2.868e4	1.60	NO	17.735	0.00000
4 Total Penta-Furans	29.39	7.341e3	4.729e3	1.55	NO	2.8722	0.00000
5 Total Penta-Furans	29.55	7.577e4	4.890e4	1.61	NO	23.205	25.205
6 1,2,3,7,8-PeCDF	29.75	6.842e5	4.462e5	1.53	NO	264.57	284.57
7 Total Penta-Furans	29.86	4.432e3	2.552e3	1.74	NO	1.6620	1.6620
8 Total Penta-Furans	30.03	2.454e5	1.548e5	1.52	NO	95.247	95.247
9 Total Penta-Furans	30.32	1.330e3	1.205e3	1.10	YES	0.52070	0.00000
10 Total Penta-Furans	30.55	1.172e3	8.588e2	1.37	NO	0.48345	0.48345
11 Total Penta-Furans	30.67	5.365e3	3.436e3	1.58	NO	2.0942	2.0942
12 2,3,4,7,8-PeCDF	30.77	3.816e5	2.459e5	1.55	NO	145.21	145.21
13 Total Penta-Furans	31.06	1.397e3	4.795e2	2.91	YES	0.29097	0.00000
14 Total Penta-Furans	31.72	1.974e4	1.294e4	1.57	NO	7.6626	7.6626
15 Total Penta-Furans	31.86	3.312e2	1.861e3	1.78	NO	1.2312	1.2312





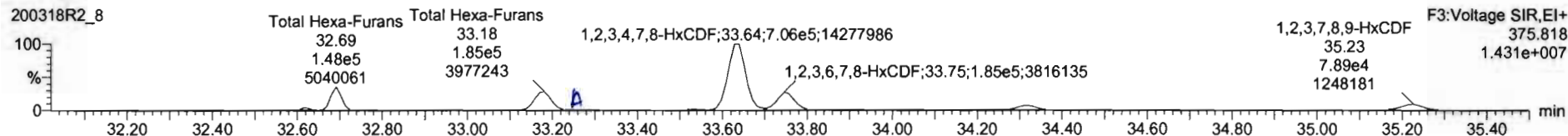
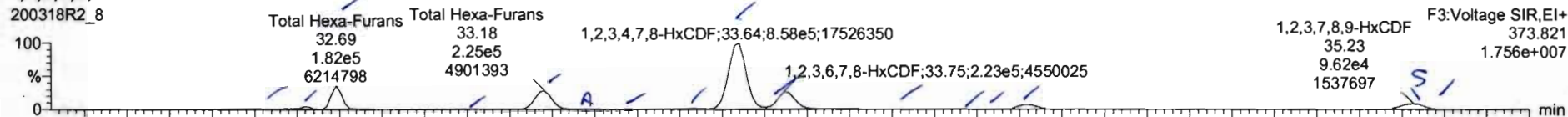


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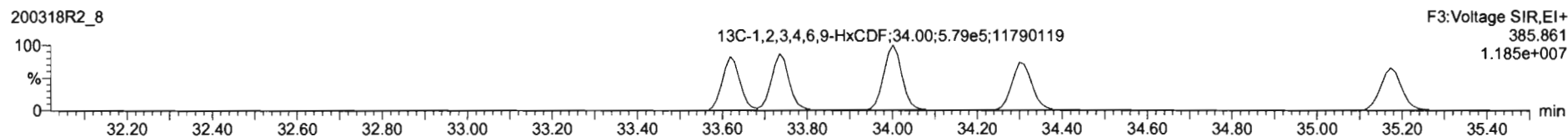
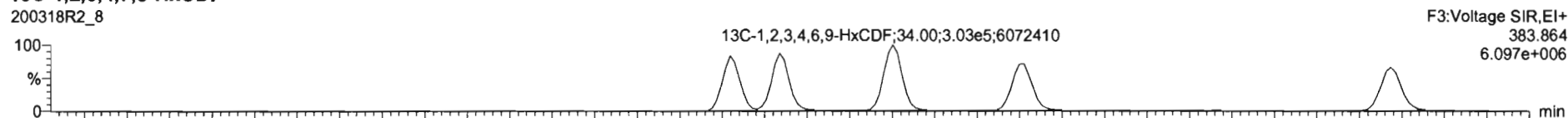
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Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

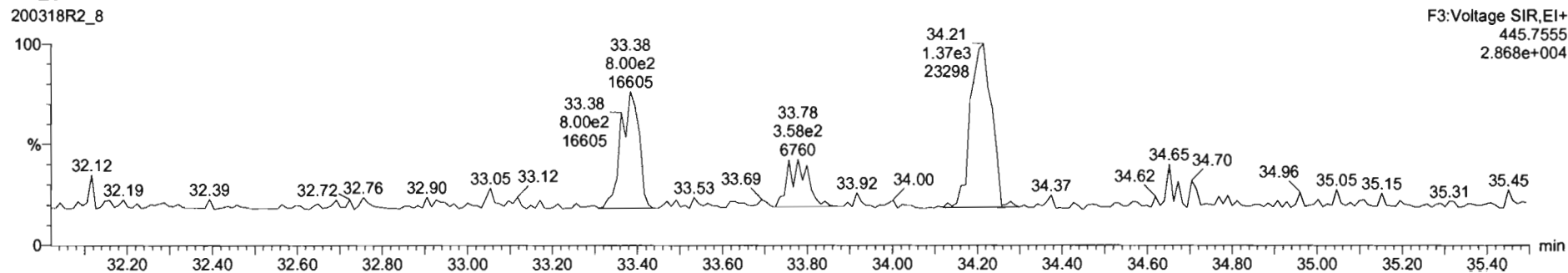
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



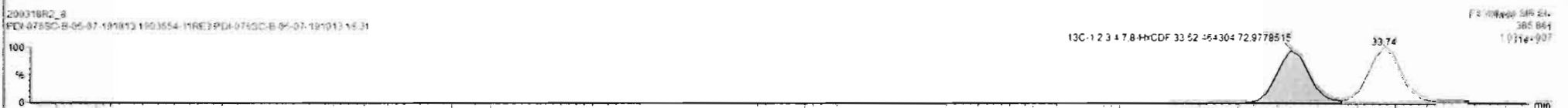
DPE3



200318R2_8 - 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	13.064			692		0.250	713
46 Total Hexa-Furans				1.0920	10.004			846		0.246	647

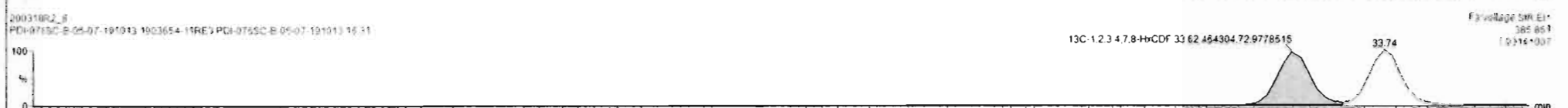
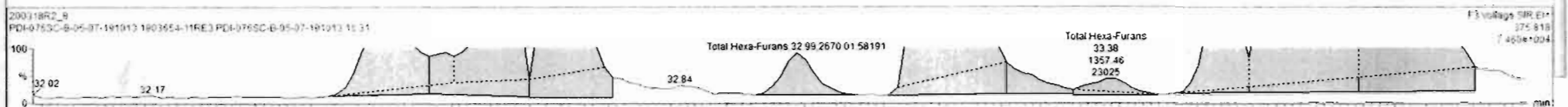
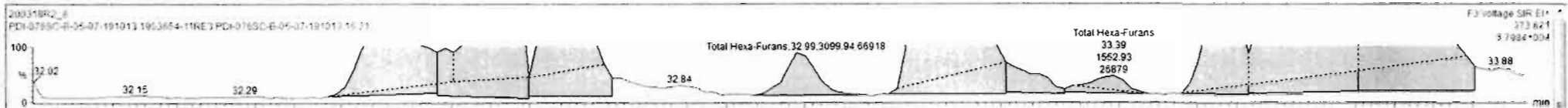
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.47	9.873e3	7.246e3	1.36	NO	4.4555	4.4555
2 Total Hexa-Furans	32.62	2.509e4	2.060e4	1.22	NO	11.689	11.689
3 Total Hexa-Furans	32.69	1.870e5	1.518e5	1.23	NO	88.125	88.125
4 Total Hexa-Furans	32.99	3.100e3	2.670e3	1.16	NO	1.5017	1.5017
5 Total Hexa-Furans	33.16	2.291e5	1.885e5	1.22	NO	108.67	108.67
6 Total Hexa-Furans	33.26	2.132e3	1.809e3	1.18	NO	1.0248	1.0248
7 Total Hexa-Furans	33.39	1.553e3	1.357e3	1.14	NO	0.75749	0.75749
8 Total Hexa-Furans	33.53	9.795e3	8.103e3	1.21	NO	4.6584	4.6584
9 1,2,3,4,7,8-HxCDF	33.64	8.611e5	7.076e5	1.22	NO	428.80	428.80
10 1,2,3,6,7,8-HxCDF	33.75	2.291e5	1.890e5	1.21	NO	112.02	112.02
11 Total Hexa-Furans	34.01	4.482e3	4.125e3	1.09	NO	2.2402	2.2402
12 Total Hexa-Furans	34.12	7.171e2	4.518e2	1.59	YES	0.26341	0.00000
13 Total Hexa-Furans	34.22	1.914e3	1.522e3	1.26	NO	0.89425	0.89425
14 2,2',6,6',7,8-HxCDF	34.52	6.337e4	5.102e4	1.24	NO	29.532	29.532
15 Total Hexa-Furans	35.03	7.544e2	3.590e2	2.10	YES	0.20932	0.00000

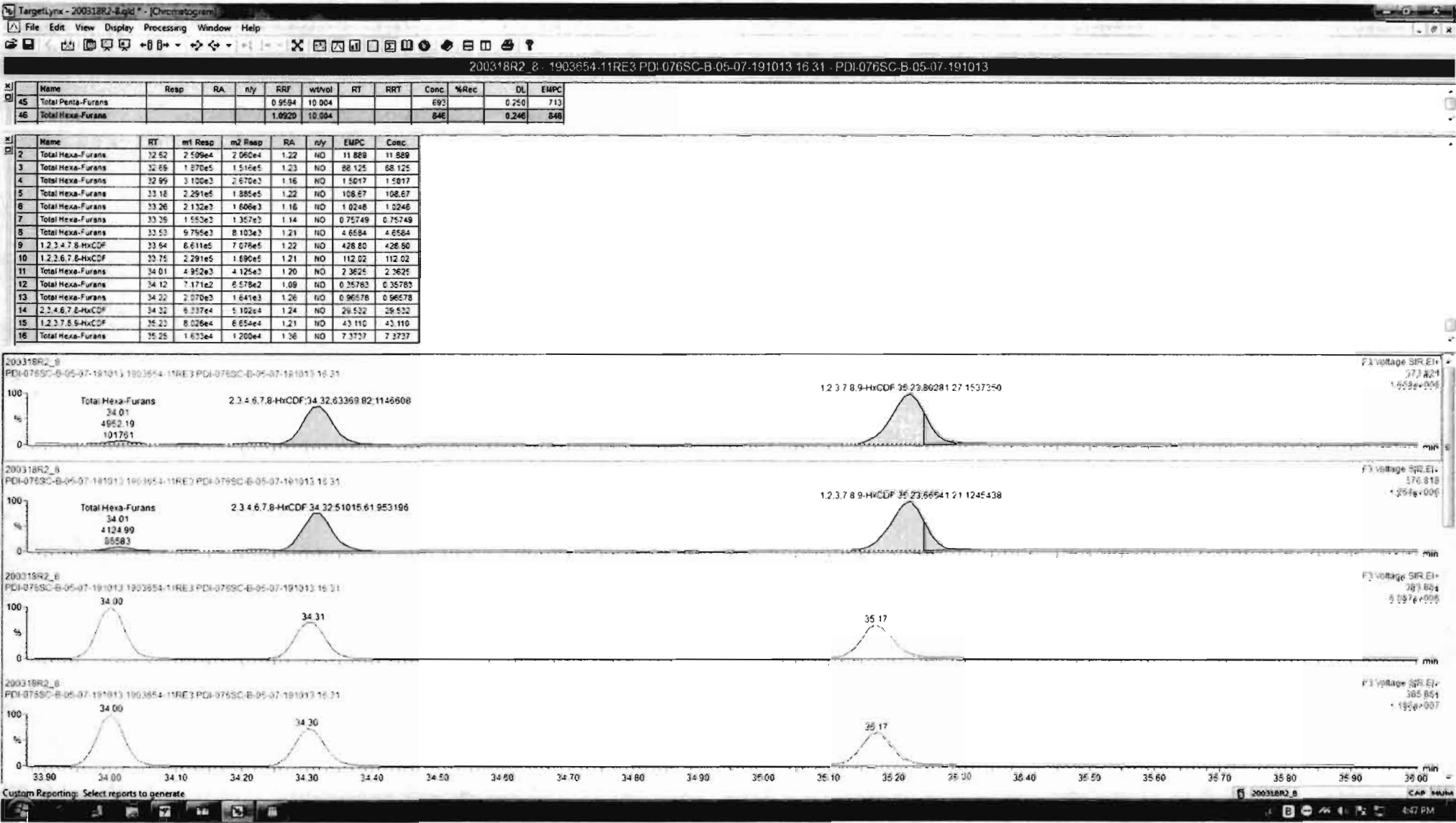


200318R2_8 - 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9594	10.004			693		0.258	713
46	Total Hexa-Furans				1.0920	10.004			846		0.246	847

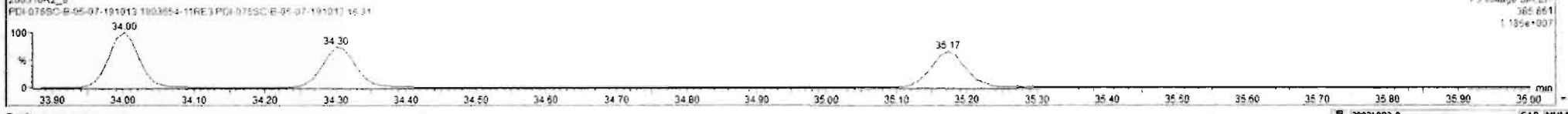
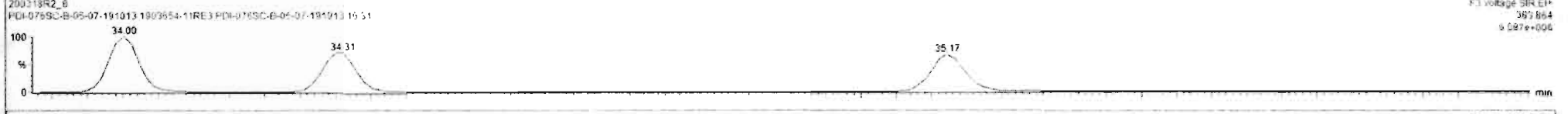
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.47	9.873e3	7.246e3	1.36	NO	4.4555	4.4555
2	Total Hexa-Furans	32.62	2.505e4	2.060e4	1.22	NO	11.8859	11.8859
3	Total Hexa-Furans	32.69	1.870e5	1.516e5	1.23	NO	89.125	88.128
4	Total Hexa-Furans	32.69	3.100e3	2.670e3	1.18	NO	1.5017	1.5017
5	Total Hexa-Furans	33.16	2.291e5	1.685e5	1.22	NO	108.67	106.67
6	Total Hexa-Furans	33.26	2.132e3	1.805e3	1.16	NO	1.0248	1.0248
7	Total Hexa-Furans	33.35	1.553e3	1.357e3	1.14	NO	0.75745	0.75749
8	Total Hexa-Furans	33.53	9.795e3	8.103e3	1.21	NO	4.6584	4.6584
9	1,2,3,4,7,8-HxCDF	33.64	8.611e5	7.079e5	1.22	NO	428.80	428.80
10	1,2,3,6,7,8-HxCDF	33.75	2.291e5	1.890e5	1.21	NO	112.02	112.02
11	Total Hexa-Furans	34.01	4.482e3	4.125e3	1.09	NO	2.2402	2.2402
12	Total Hexa-Furans	34.12	7.171e2	4.618e2	1.59	YES	0.26341	0.00000
13	Total Hexa-Furans	34.22	1.914e3	1.522e3	1.26	NO	0.89425	0.89425
14	2,3,4,6,7,8-HxCDF	34.32	6.337e4	5.102e4	1.24	NO	29.532	29.532
15	Total Hexa-Furans	35.03	7.544e2	7.590e2	2.10	YES	0.20932	0.00000





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.064			692		0.250	713
46 Total Hexa-Furans				1.0920	10.904			846		0.246	846

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
2 Total Hexa-Furans	32.52	2.539e4	2.060e4	1.22	NO	11.889	11.889
3 Total Hexa-Furans	32.69	1.870e5	1.516e5	1.23	NO	88.125	88.125
4 Total Hexa-Furans	32.99	3.100e3	2.670e3	1.16	NO	1.5017	1.5017
5 Total Hexa-Furans	33.18	2.291e5	1.885e5	1.22	NO	108.67	108.67
6 Total Hexa-Furans	33.26	2.132e3	1.606e3	1.16	NO	1.0248	1.0248
7 Total Hexa-Furans	33.39	1.552e3	1.357e3	1.14	NO	0.75749	0.75749
8 Total Hexa-Furans	33.53	9.752e3	8.103e3	1.21	NO	4.6584	4.6584
9 1,2,3,4,7,8-HxCDF	33.64	8.611e5	7.076e5	1.22	NO	428.80	428.80
10 1,2,3,6,7,8-HxCDF	33.75	2.291e5	1.890e5	1.21	NO	112.02	112.02
11 Total Hexa-Furans	34.01	4.952e3	4.125e3	1.20	NO	2.3625	2.3625
12 Total Hexa-Furans	34.12	7.171e2	6.578e2	1.09	NO	0.35783	0.35783
13 Total Hexa-Furans	34.22	2.070e3	1.641e3	1.26	NO	0.96578	0.96578
14 2,3,4,6,7,8-HxCDF	34.32	6.337e4	5.102e4	1.24	NO	29.532	29.532
15 1,2,3,7,8,9-HxCDF	35.23	8.028e4	6.654e4	1.21	NO	43.110	43.110
16 Total Hexa-Furans	35.25	1.633e4	1.200e4	1.36	NO	7.3737	7.3737



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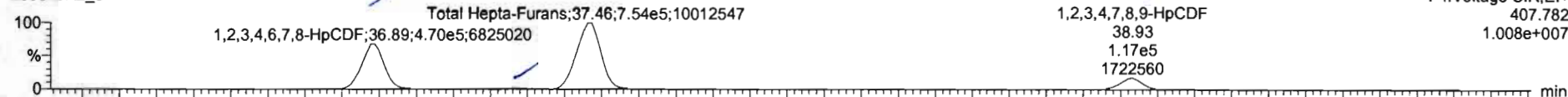
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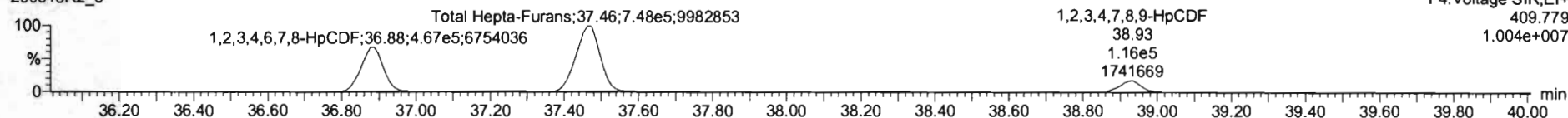
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1,2,3,4,6,7,8-HpCDF

200318R2_8

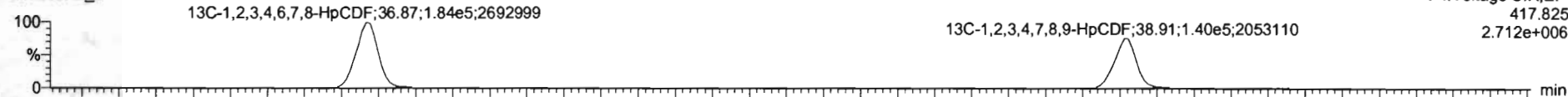


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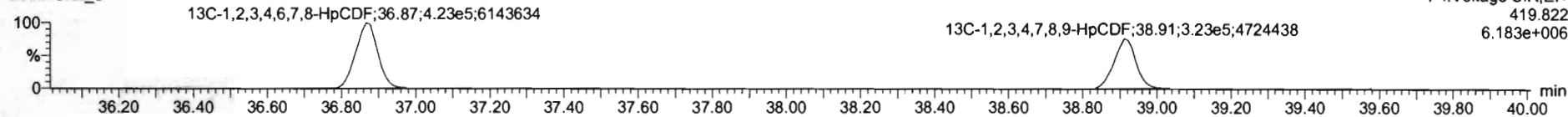


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200318R2_8

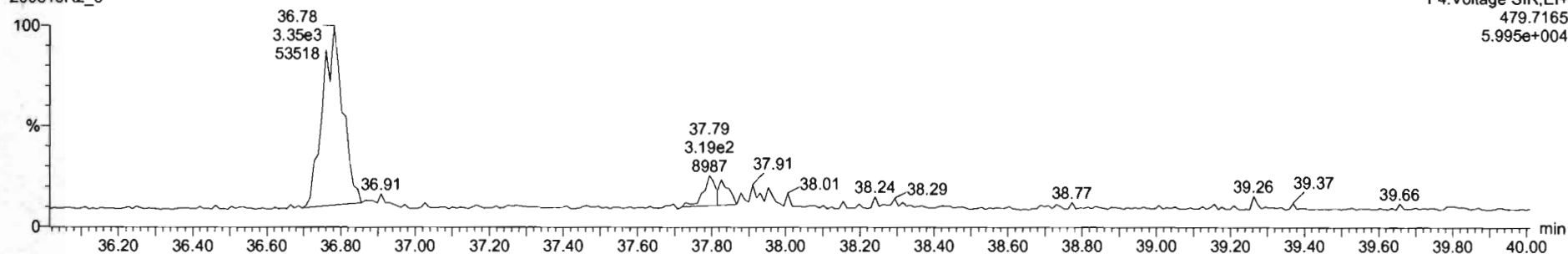


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DPE4

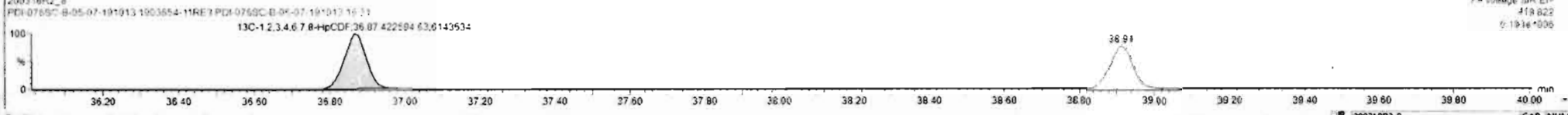
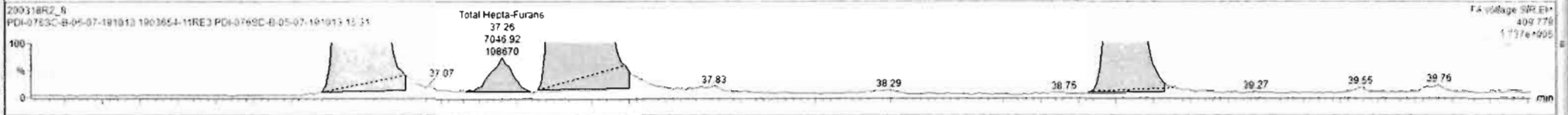
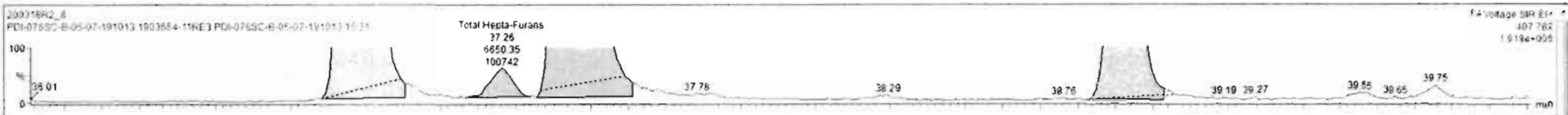
200318R2_8



200318R2_8 - 1903654-11RE3 PDI-076SC-B-05-07-191013 16 31 - PDI-076SC-B-05-07-191013

#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9594	10.004			593		0.250	713
46	Total Hexa-Furans				1.0920	10.004			846		0.246	846

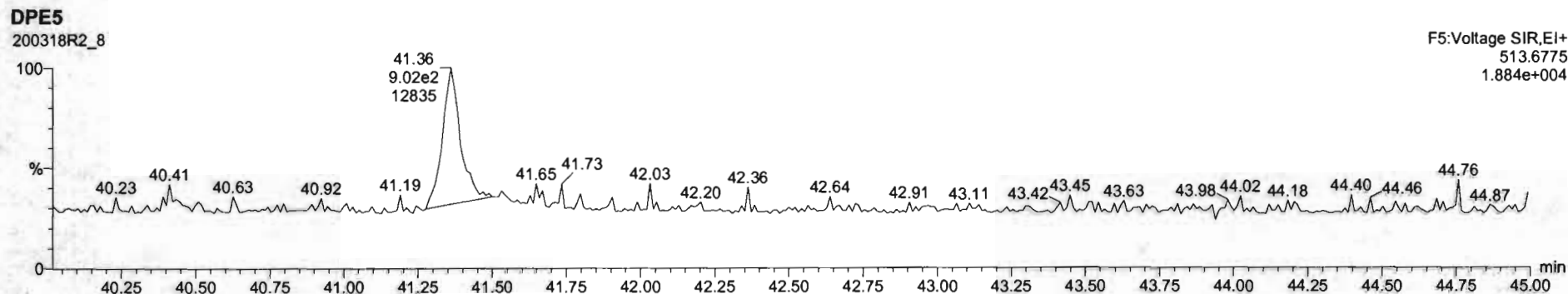
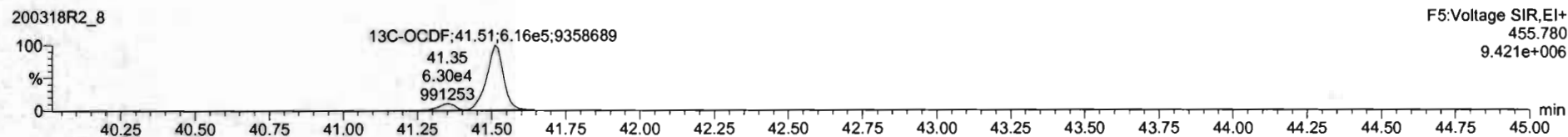
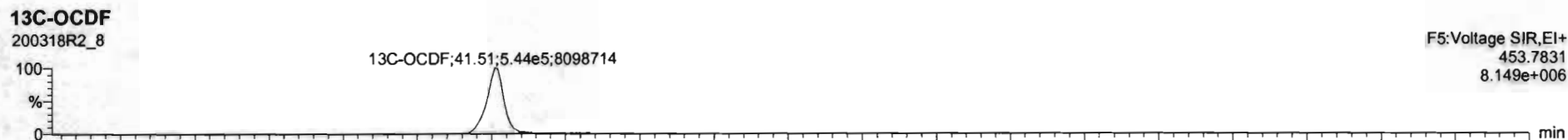
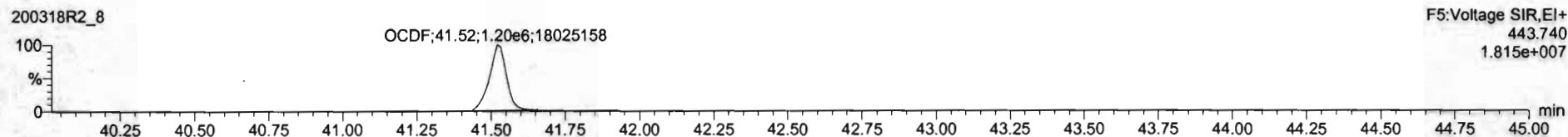
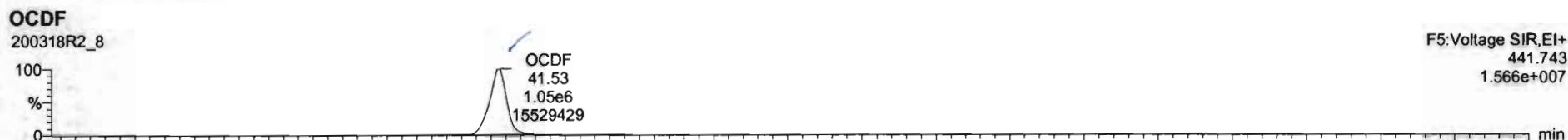
#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.89	4.774e5	4.718e5	1.01	NO	296.58	296.58
2	Total Hepta-Furans	37.26	6.650e3	7.047e3	0.94	NO	4.8856	4.8856
3	Total Hepta-Furans	37.46	7.665e5	7.574e5	1.01	NO	543.54	543.54
4	1,2,3,4,7,8,9-HpCDF	38.93	1.183e5	1.168e5	1.01	NO	83.920	83.920



Dataset: Untitled

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Printed: Thursday, March 19, 2020 10:02:23 AM Pacific Daylight Time

Name: 200318R2_8, Date: 19-Mar-2020, Time: 09:05:12, ID: 1903654-11RE3 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

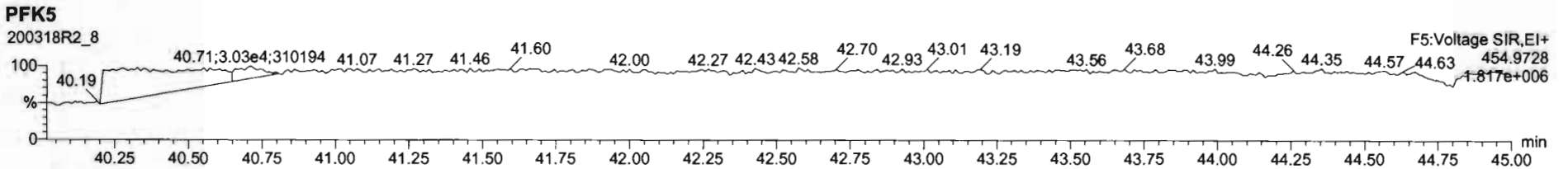
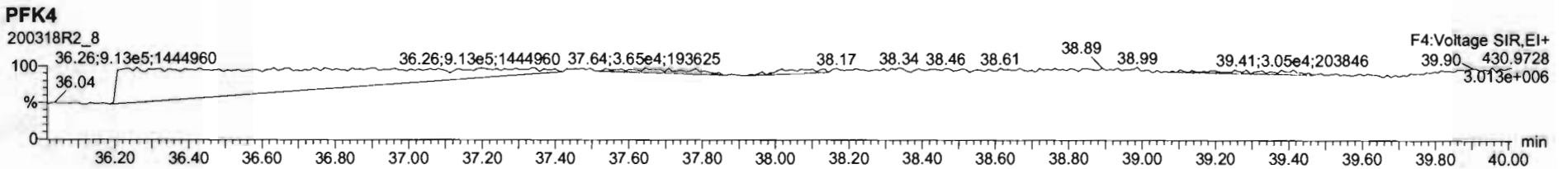
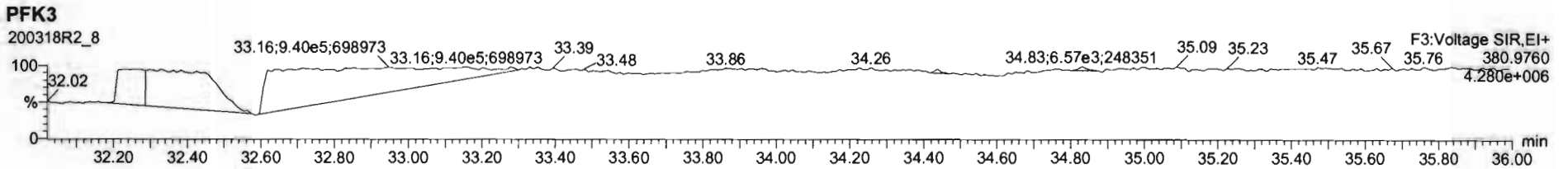
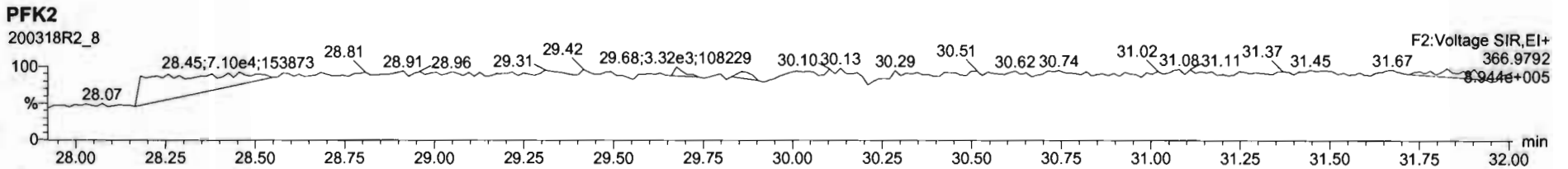
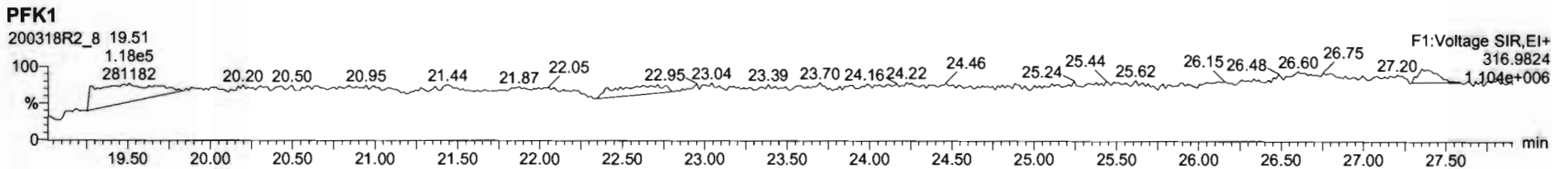


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Dataset: U:\VG12.PRO\Results\200319R1\200319R1-16.qld

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GPB 03/20/2020

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C7 03/23/2020

Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	1.85e6	0.90	NO	1.05	10.004	41.340	41.35	1.000	1.000	13787		5.21	13800
2	24 13C-OCDD	5.09e4	0.91	NO	0.571	10.004	41.458	41.34	1.219	1.216	294.97	73.8	1.88	
3	35 37Cl-2,3,7,8-TCDD	2.06e4			1.17	10.004	25.776	25.80	1.029	1.030	56.812	71.0	0.965	
4	36 13C-1,2,3,4-TCDD	6.17e4	0.84	NO	1.00	10.004	25.050	25.05	1.000	1.000	199.91	100	5.04	
5	37 13C-1,2,3,4-TCDF	1.07e5	0.80	NO	1.00	10.004	23.190	23.10	1.000	1.000	199.91	100	5.05	
6	38 13C-1,2,3,4,6,9-HxCDF	6.04e4	0.49	NO	1.00	10.004	33.880	34.00	1.000	1.000	199.91	100	1.27	

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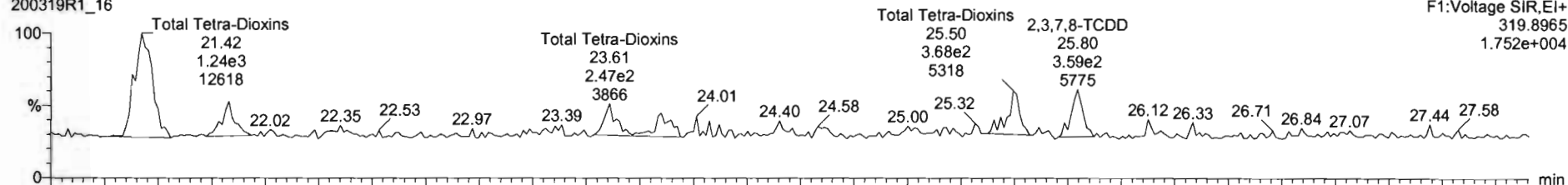
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

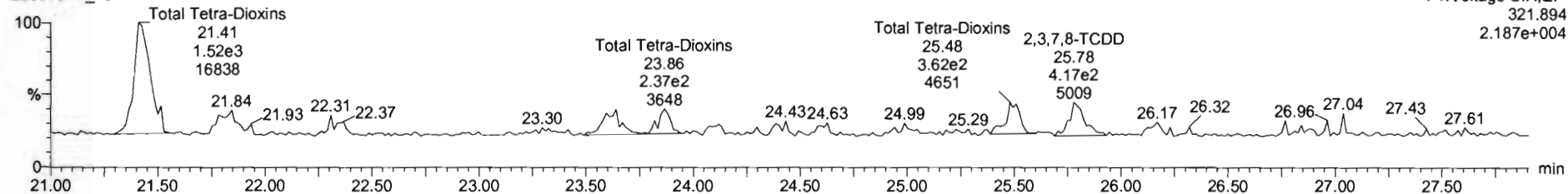
Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

2,3,7,8-TCDD

200319R1_16

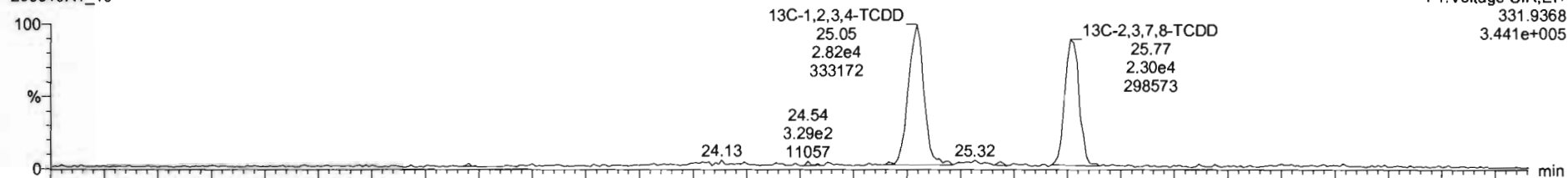


200319R1_16

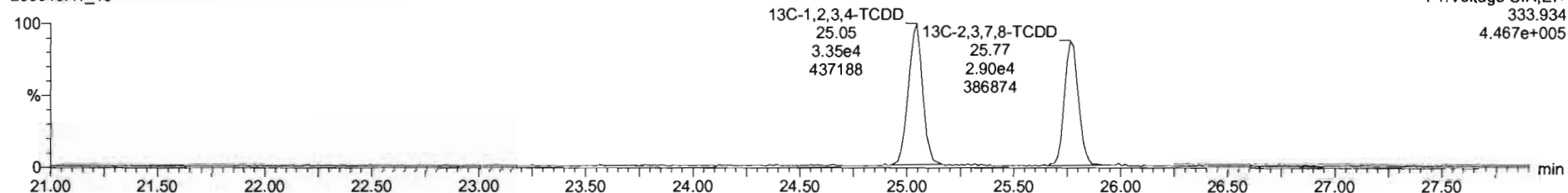


13C-2,3,7,8-TCDD

200319R1_16



200319R1_16



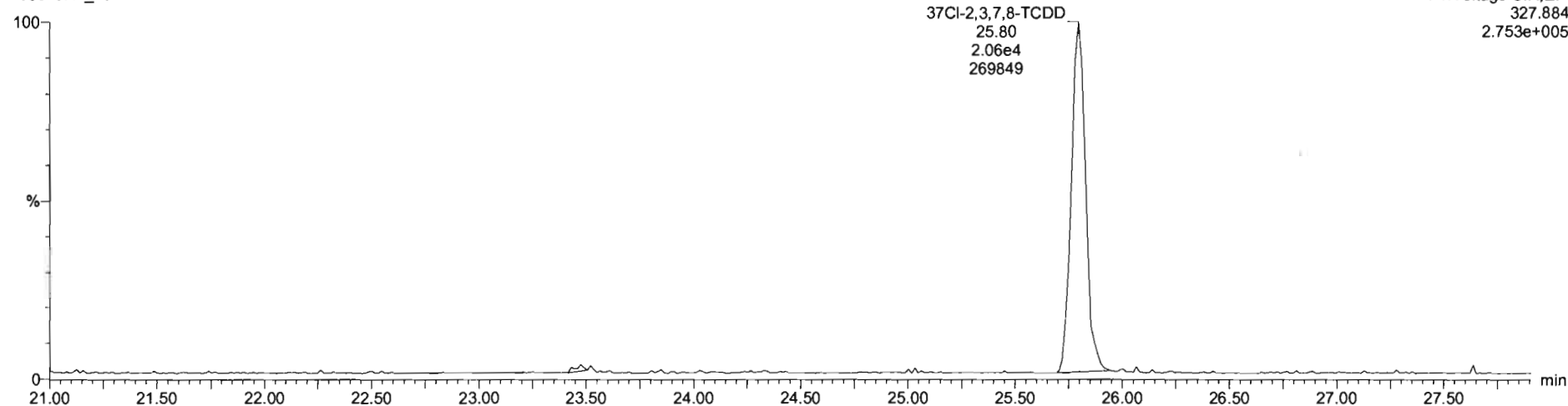
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Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

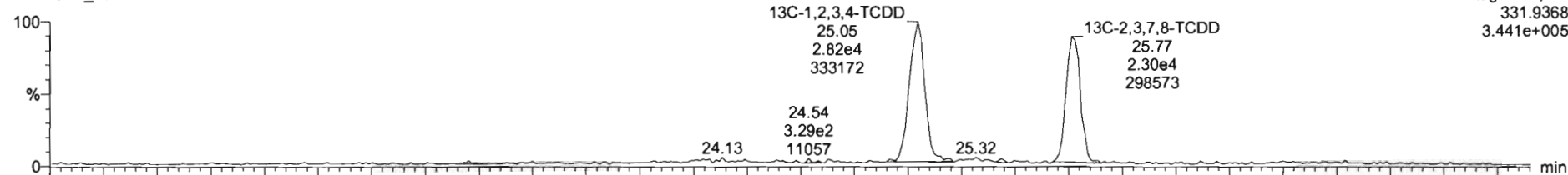
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200319R1_16

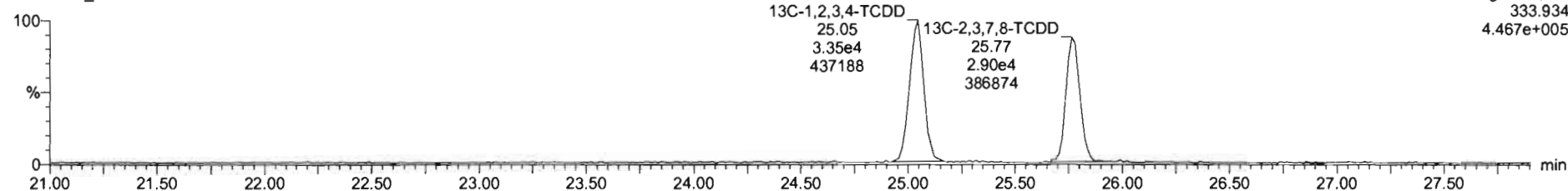


13C-1,2,3,4-TCDD

200319R1_16



200319R1_16



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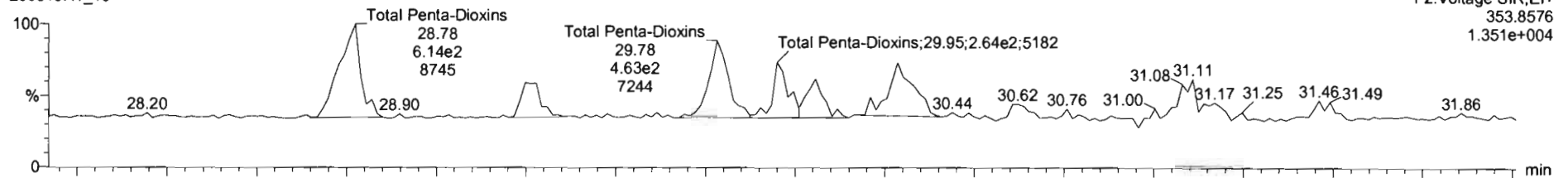
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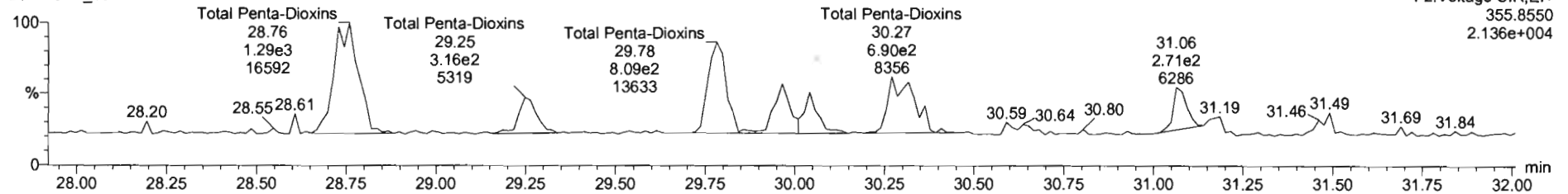
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1,2,3,7,8-PeCDD

200319R1_16

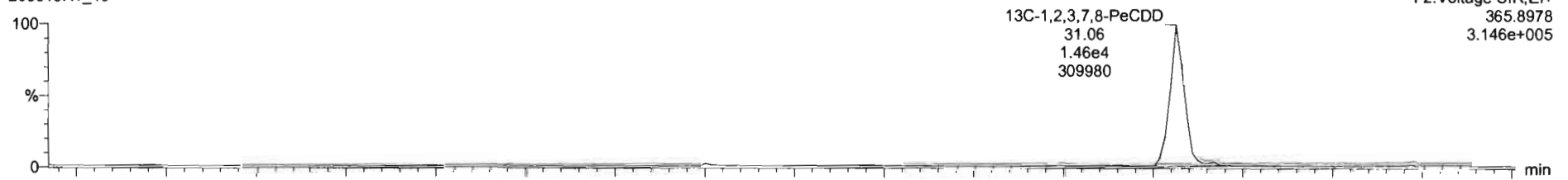


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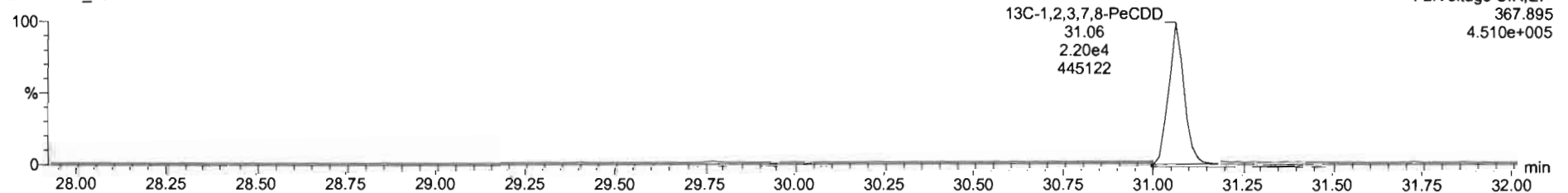


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200319R1_16



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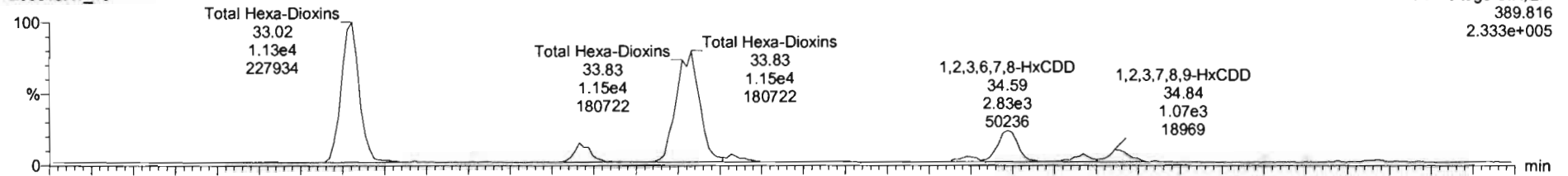
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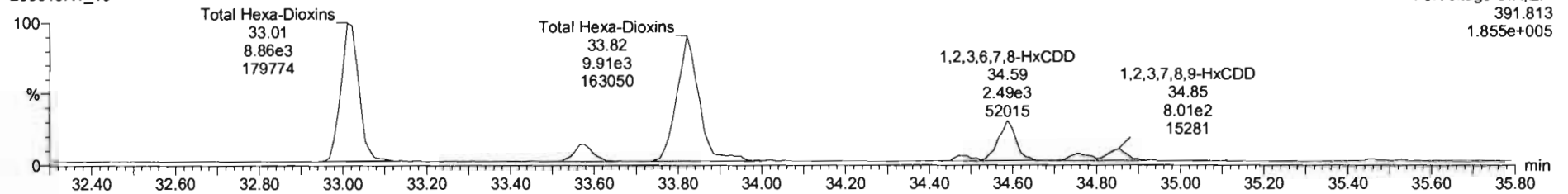
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1,2,3,4,7,8-HxCDD

200319R1_16

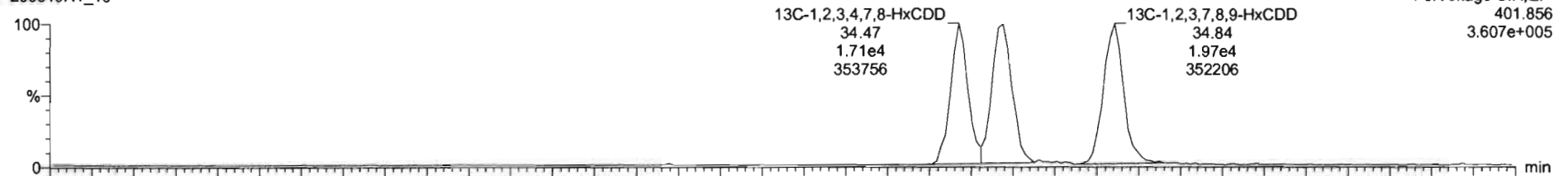


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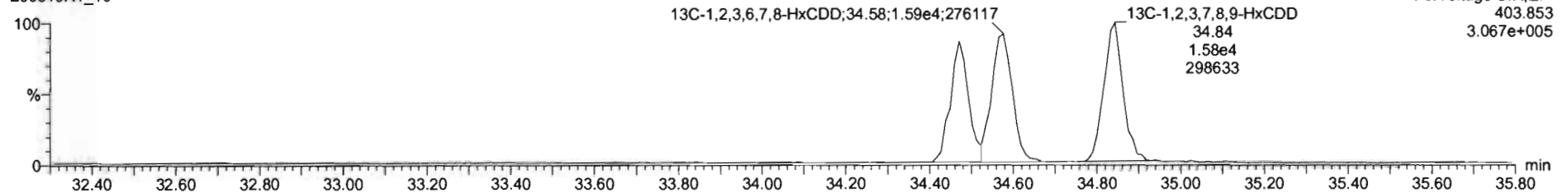


13C-1,2,3,4,7,8-HxCDD

200319R1_16



200319R1_16



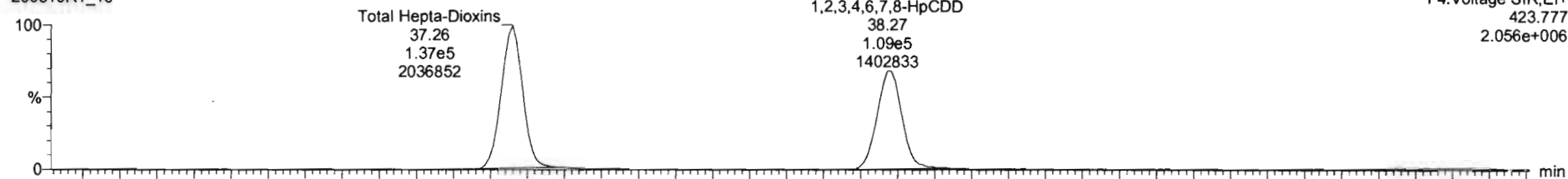
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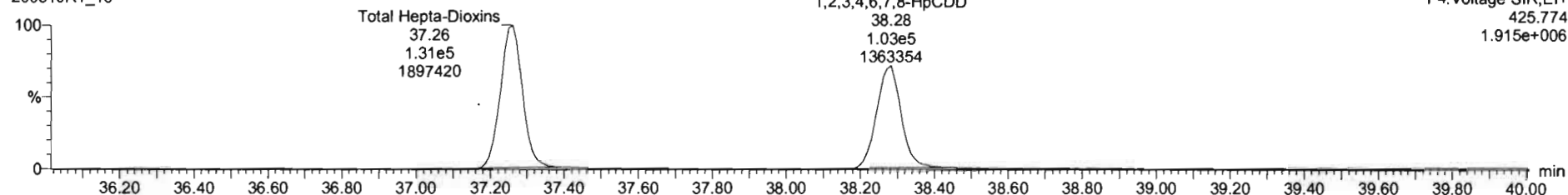
Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

1,2,3,4,6,7,8-HpCDD

200319R1_16

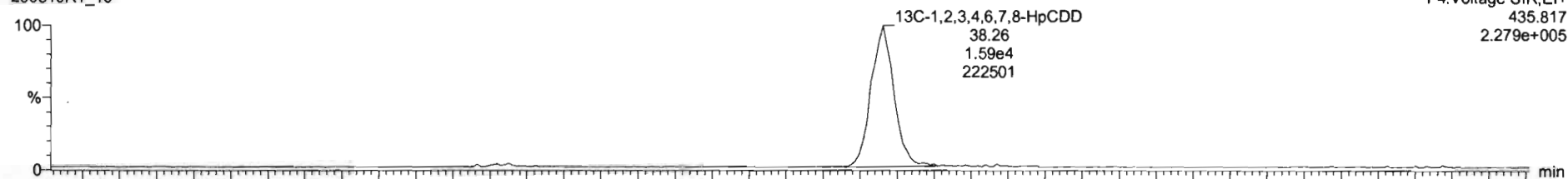


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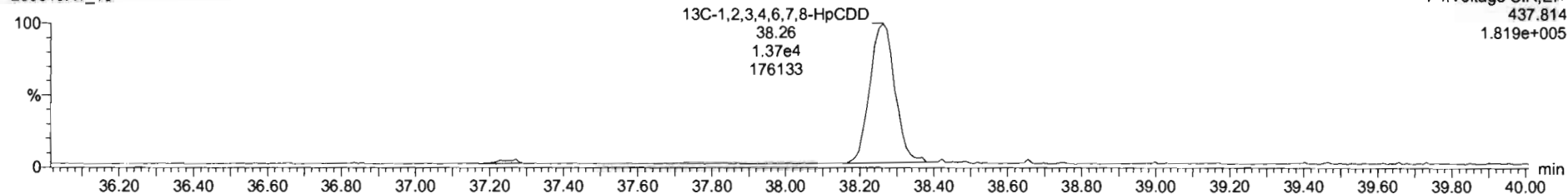


13C-1,2,3,4,6,7,8-HpCDD

200319R1_16



200319R1_16

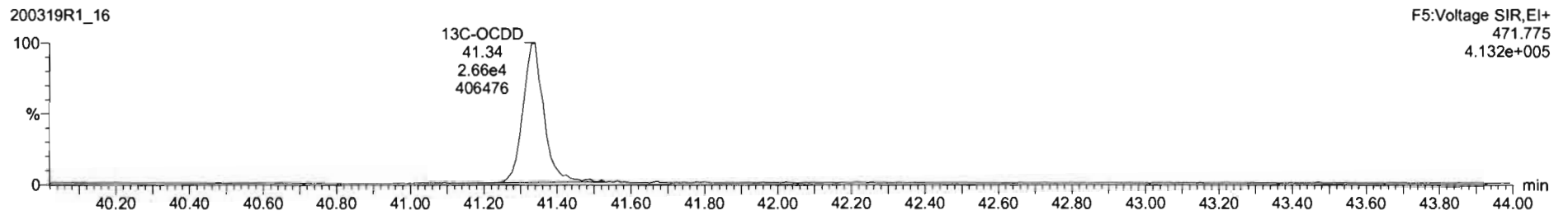
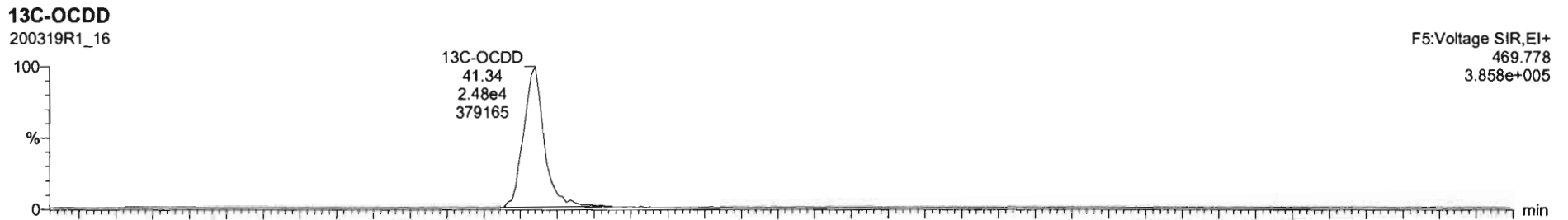
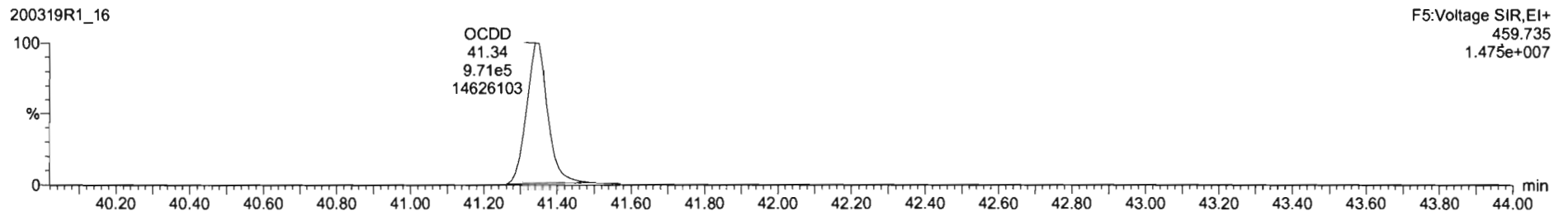
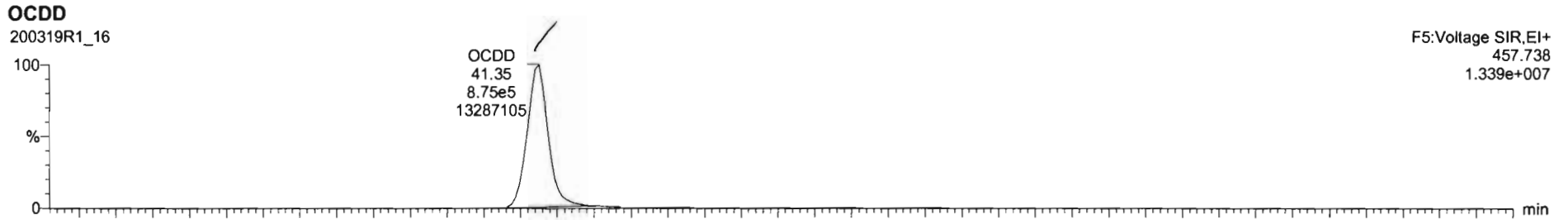


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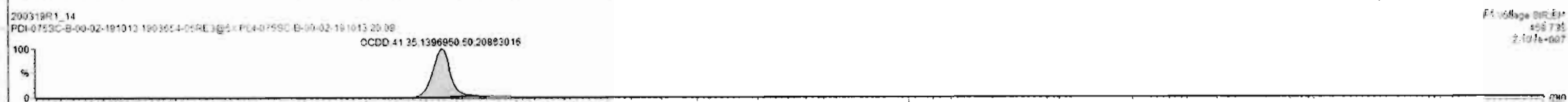
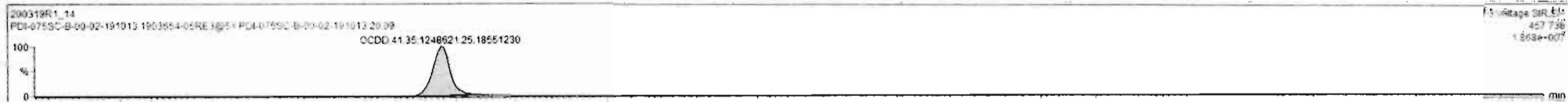
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Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013



Name	Resp	RA	ny	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.86e2	0.55	YES	0.9835	10.003	25.81	1.000	2.29		1.29	2.97
2 1,2,3,7,8-PeCDD	1.27e3	0.61	NO	0.9212	10.003	21.05	1.000	5.61		1.52	5.61
3 1,2,3,4,7,8-HxCDD	1.94e3	1.35	NO	1.1325	10.003	24.49	1.000	7.94		1.30	7.94
4 1,2,3,6,7,8-HxCDD	9.35e3	1.27	NO	0.9844	10.003	24.59	1.000	37.1		1.38	37.1
5 1,2,3,7,8,9-HxCDD	4.54e3	1.36	NO	0.9074	10.003	24.86	1.001	20.0		1.44	20.0
6 1,2,3,4,6,7,8-HpCDD	2.47e5	1.02	NO	1.0061	10.003	30.28	1.001	1170		2.06	1170
7 OCDD	2.65e6	0.89	NO	1.0515	10.003	41.35	1.000	16600		7.11	16600
8 2,3,7,8-TCDF	1.72e5	0.77	NO	0.9154	10.003	24.82	1.001	456		1.45	456
9 1,2,3,7,8-PeCDF	3.13e5	1.59	NO	0.9594	10.003	29.74	1.001	779		1.52	779
10 2,3,4,7,8-PeCDF	1.86e5	1.60	NO	1.0035	10.003	20.77	1.001	463		1.45	463
11 1,2,3,4,7,8-HxCDF	4.48e5	1.23	NO	1.0381	10.003	23.64	1.001	1300		1.51	1300
12 1,2,3,6,7,8-HxCDF	1.28e5	1.20	NO	1.0126	10.003	32.76	1.000	344		1.53	344
13 2,3,4,6,7,8-HxCDF	3.17e4	1.22	NO	1.0920	10.003	24.32	1.000	82.7		1.52	82.7
14 1,2,3,7,8,9-HxCDF	4.83e4	1.22	NO	1.0258	10.003	25.24	1.002	157		2.15	157
15 1,2,3,4,6,7,8-HpCDF	1.83e5	1.02	NO	1.0483	10.003	36.89	1.000	669		2.97	669
16 1,2,3,4,7,8,9-HpCDF	4.64e4	0.98	NO	1.2099	10.003	38.94	1.001	201		3.42	201
17 OCDF	3.66e5	0.87	NO	0.9468	10.003	41.53	1.000	1660		2.06	1660
18 13C-2,3,7,8-TCDD	6.09e4	0.82	NO	1.1842	10.003	25.81	1.030	124	51.8	1.03	
19 13C-1,2,3,7,8-PeCDD	4.94e4	0.85	NO	0.8644	10.003	21.06	1.239	137	68.6	1.24	
20 13C-1,2,3,4,7,8-HxCDD	4.21e4	1.29	NO	0.7539	10.003	24.48	1.014	140	70.0	1.34	
21 13C-1,2,3,6,7,8-HxCDD	5.12e4	1.27	NO	0.9254	10.003	24.56	1.017	136	67.7	1.09	



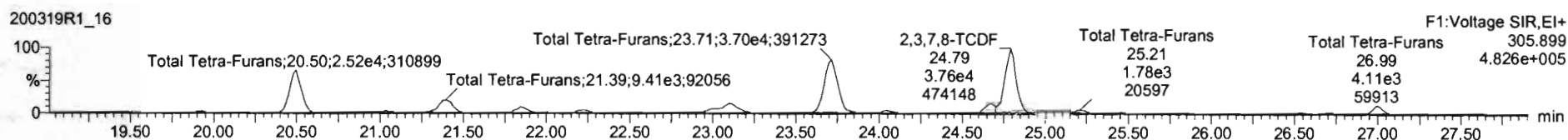
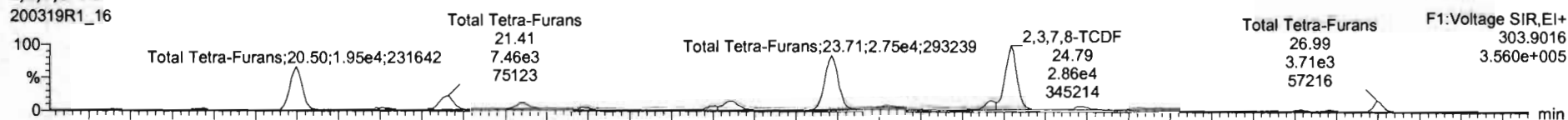
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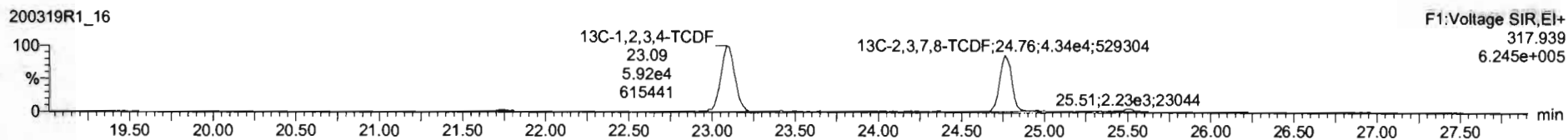
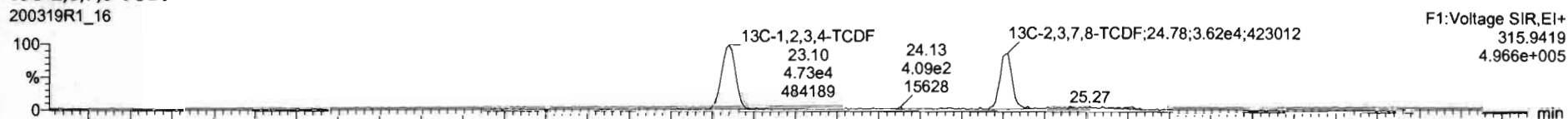
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Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

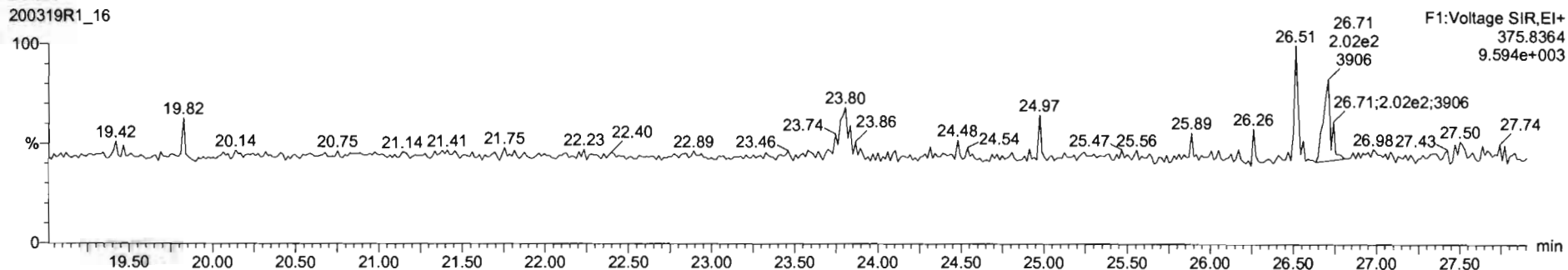
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



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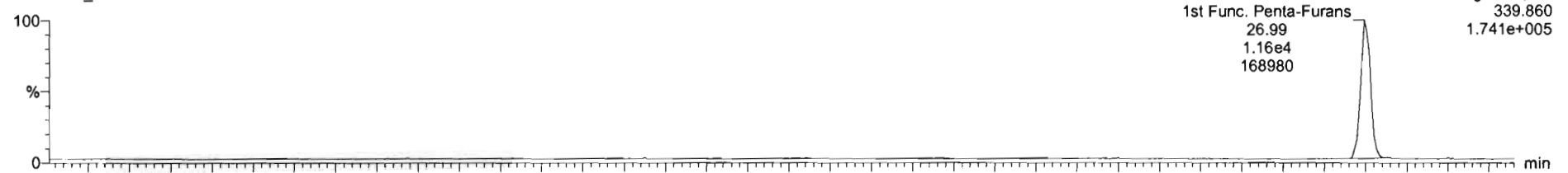
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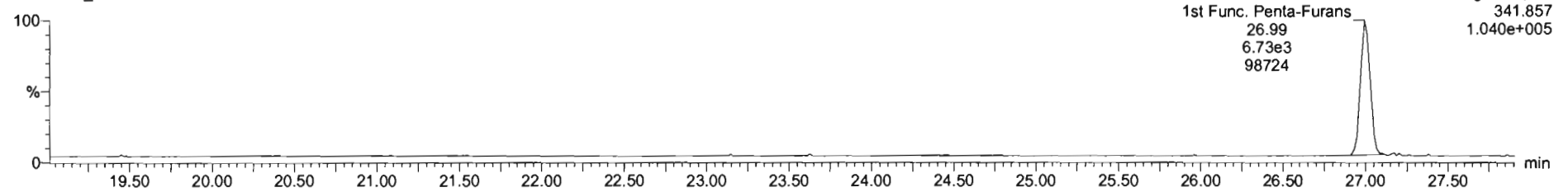
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1st Func. Penta-Furans

200319R1_16

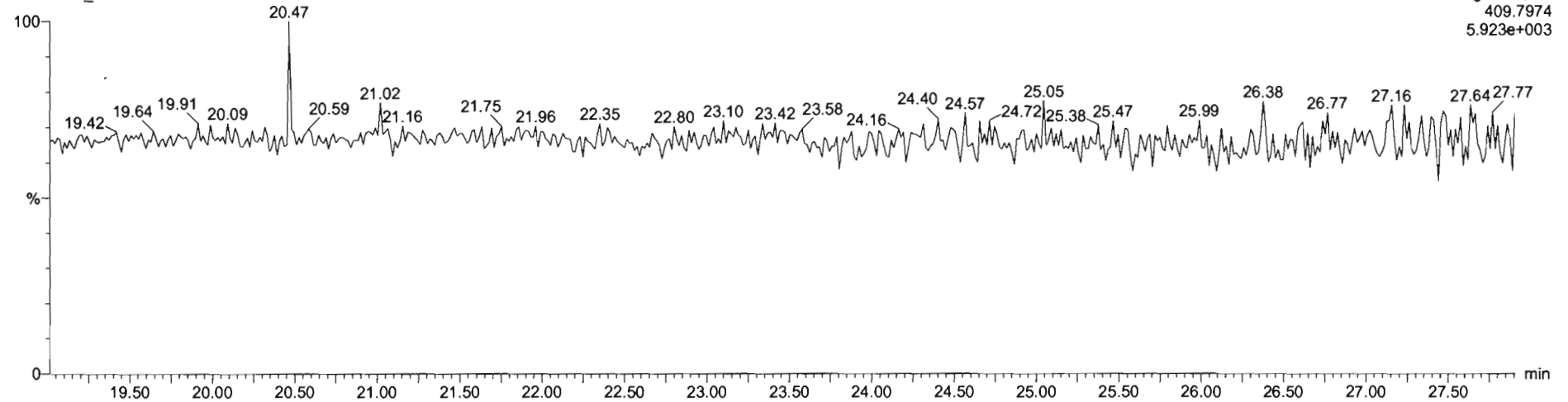


200319R1_16



DPE6

200319R1_16



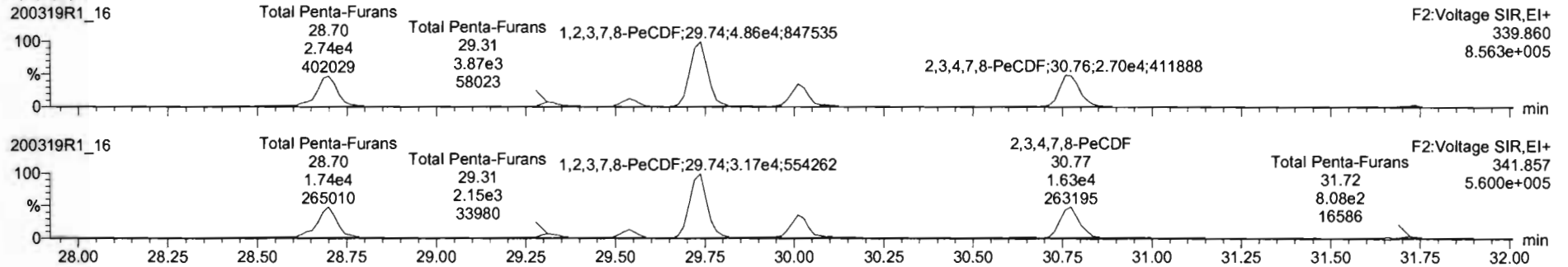
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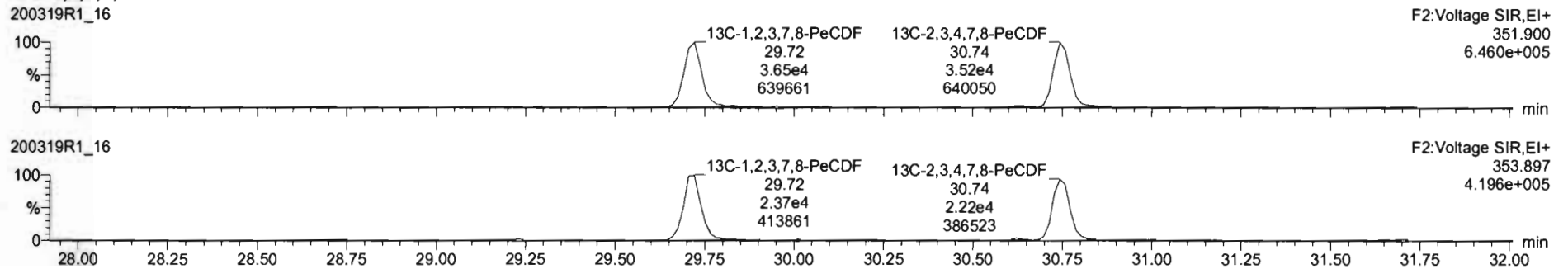
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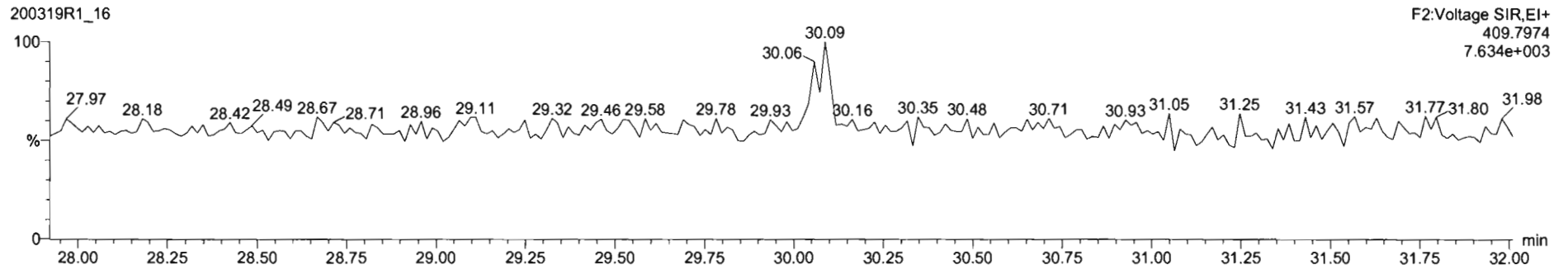
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



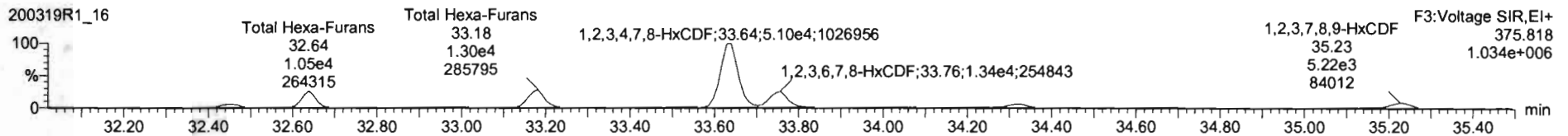
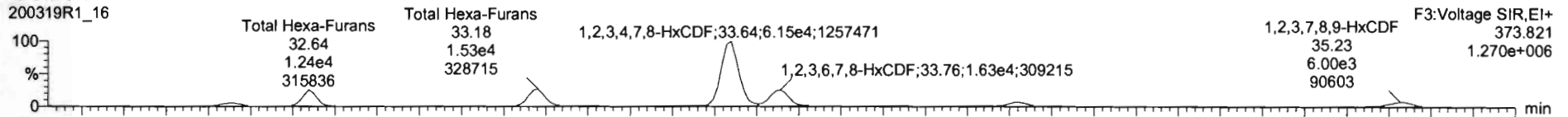
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

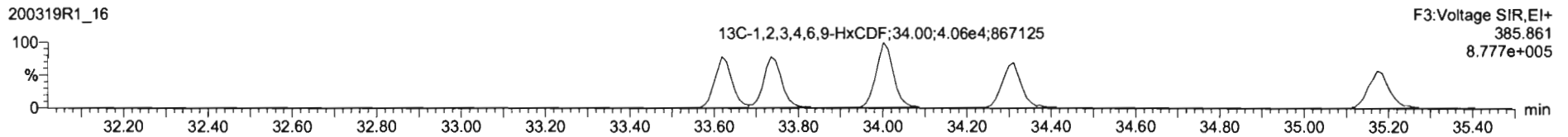
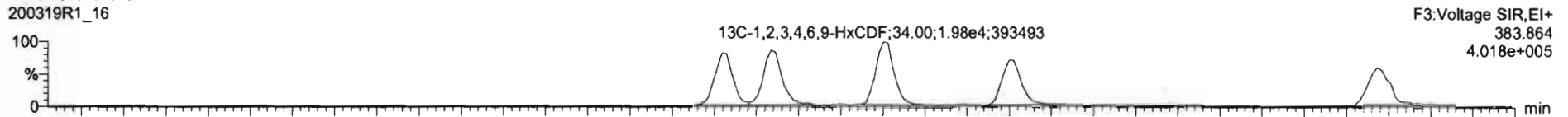
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

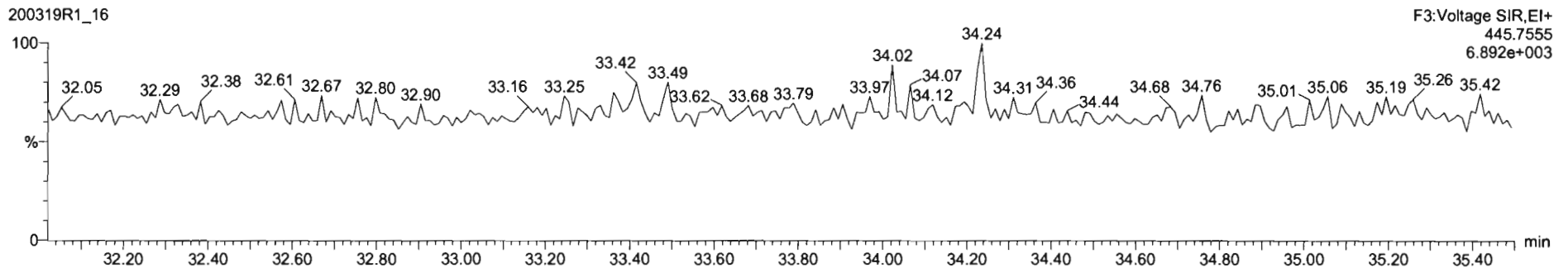
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



Dataset: Untitled

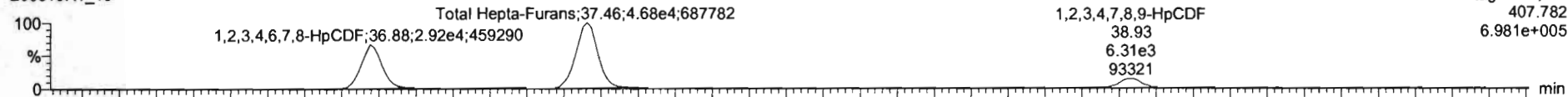
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

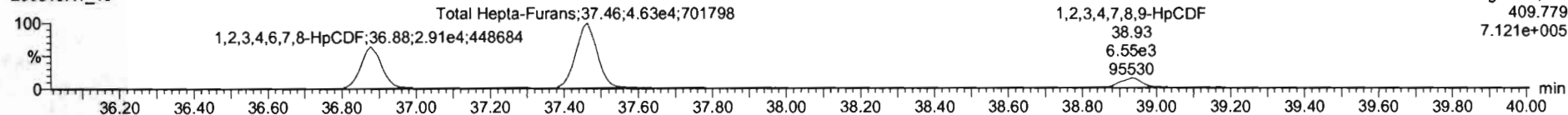
Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

1,2,3,4,6,7,8-HpCDF

200319R1_16



200319R1_16

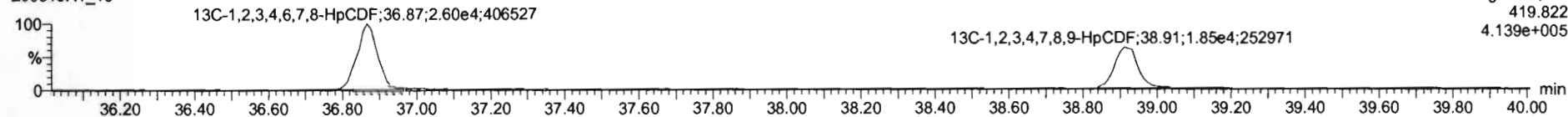


13C-1,2,3,4,6,7,8-HpCDF

200319R1_16

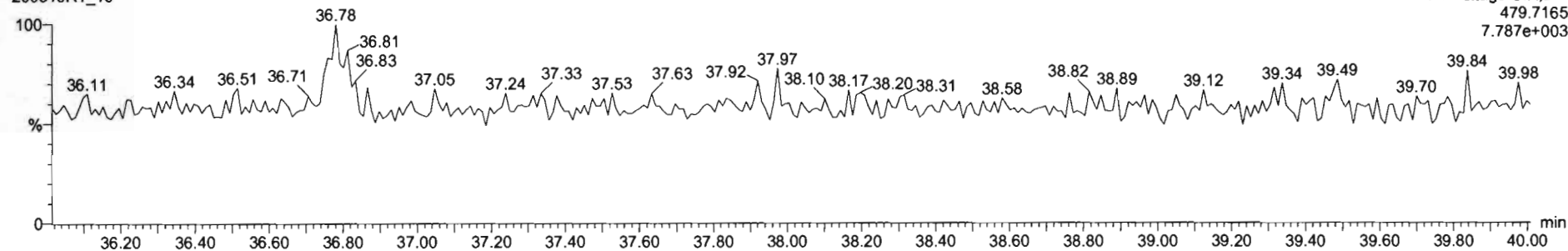


200319R1_16



DPE4

200319R1_16



Dataset: Untitled

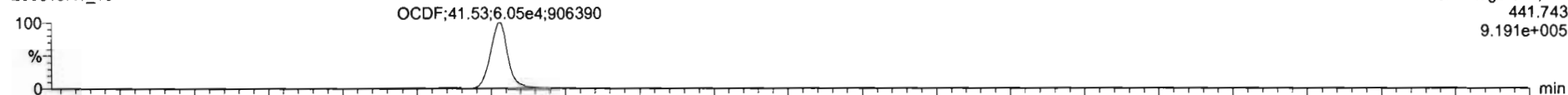
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

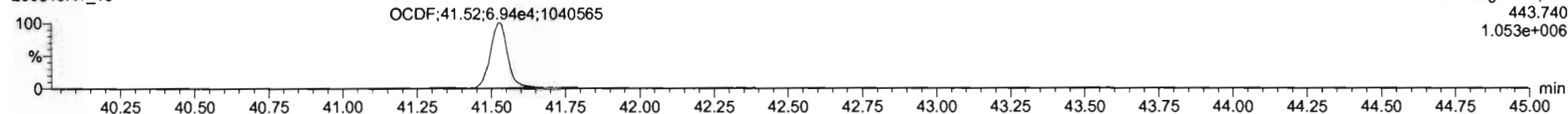
Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

OCDF

200319R1_16

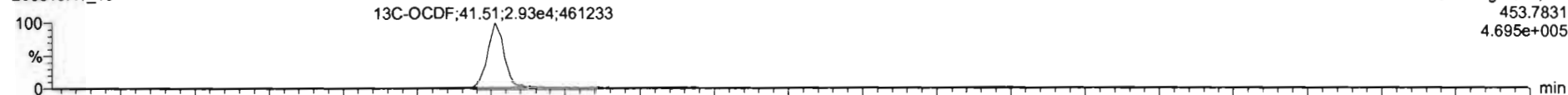


200319R1_16

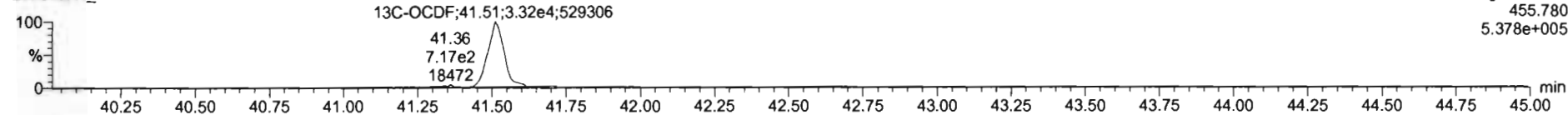


13C-OCDF

200319R1_16

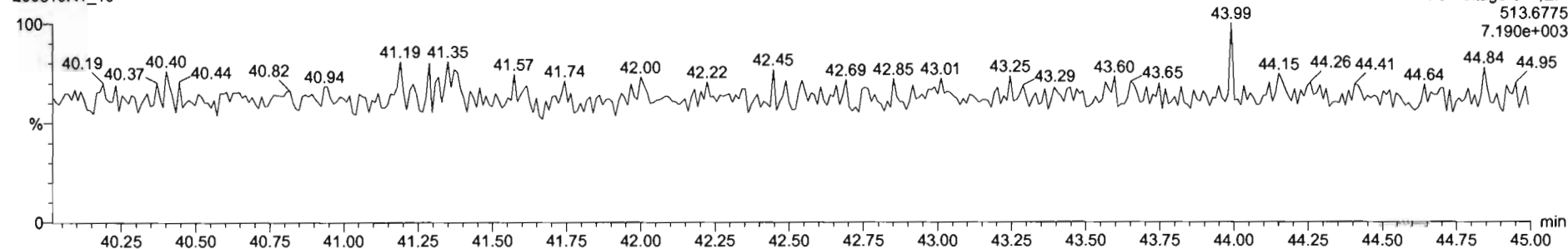


200319R1_16



DPE5

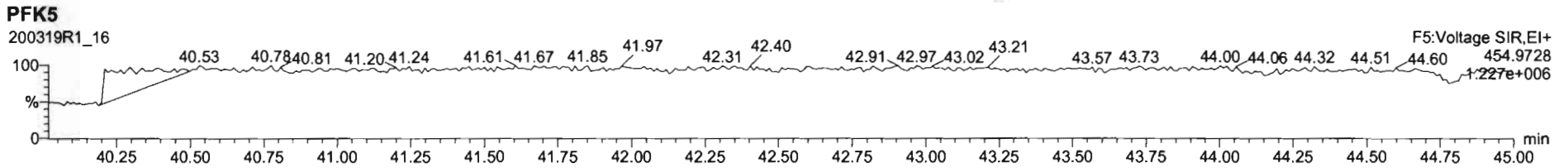
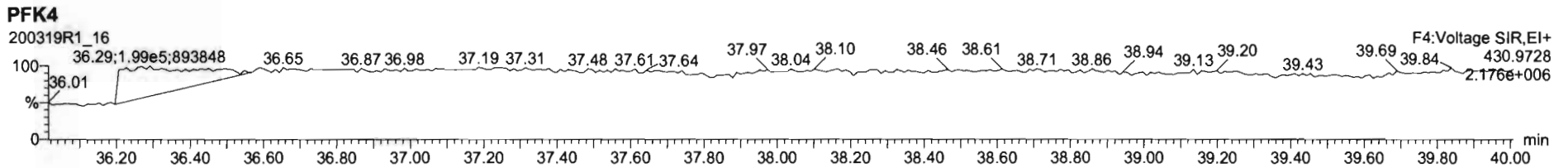
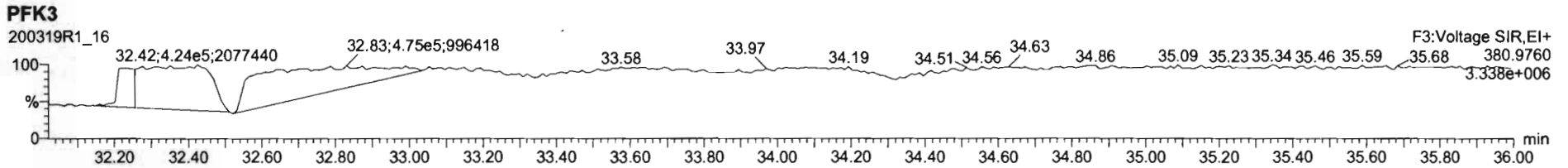
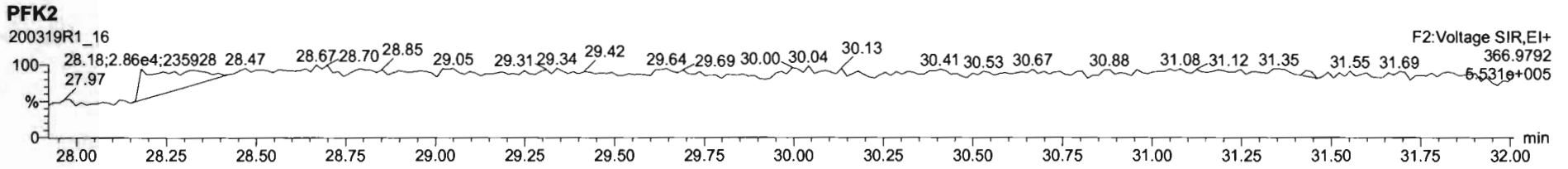
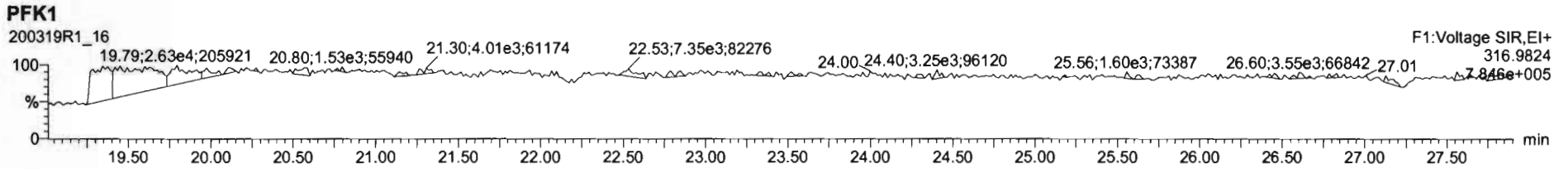
200319R1_16



Dataset: Untitled

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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_16, Date: 20-Mar-2020, Time: 04:14:45, ID: 1903654-11RE3@5X PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013



CONFIRMATION

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-19.qld

Last Altered: Thursday, March 12, 2020 08:58:35 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:01:54 Pacific Daylight Time

GRB 03/12/2020

C7 03/13/2020

Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_19, Date: 12-Mar-2020, Time: 00:49:46, ID: 1903654-02RE1 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	9.29e3	0.75	NO	0.821	10.098	16.79	2.7863		0.565
2	2 13C-2,3,7,8-TCDF	8.05e5	0.77	NO	1.10	10.098	16.76	81.605	41.2	0.484
3	3 13C-1,2,3,4-TCDF	1.77e6	0.78	NO	1.00	10.098	14.66	198.06	100	0.533

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 08:57:57 Pacific Daylight Time
Printed: Thursday, March 12, 2020 08:58:05 Pacific Daylight Time

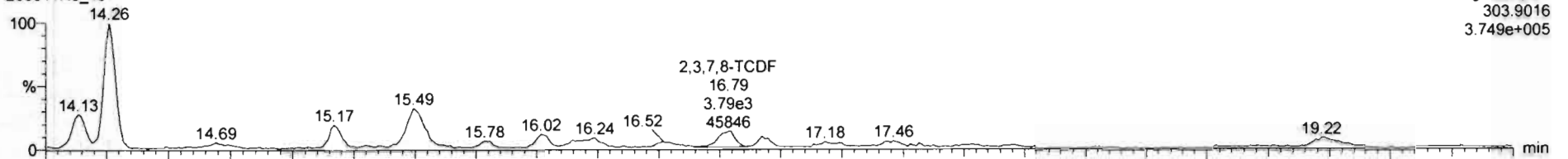
Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

46. ID: 1903654-02RE1 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

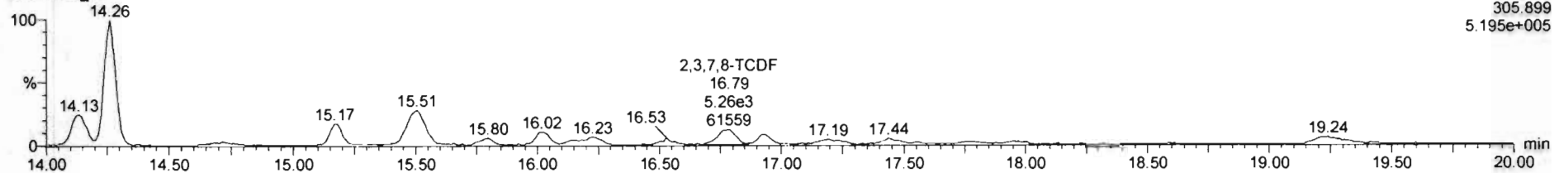
2,3,7,8-TCDF

200311R3_19



Voltage SIR,EI+
303.9016
3.749e+005

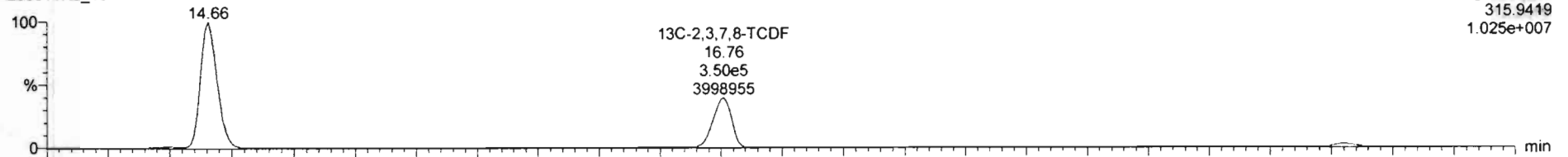
200311R3_19



Voltage SIR,EI+
305.899
5.195e+005

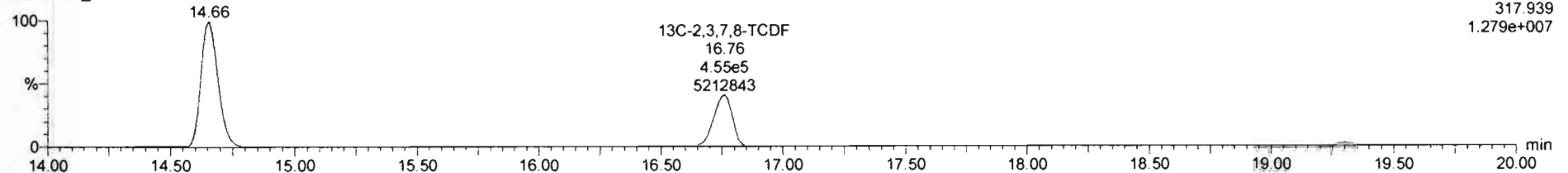
13C-2,3,7,8-TCDF

200311R3_19



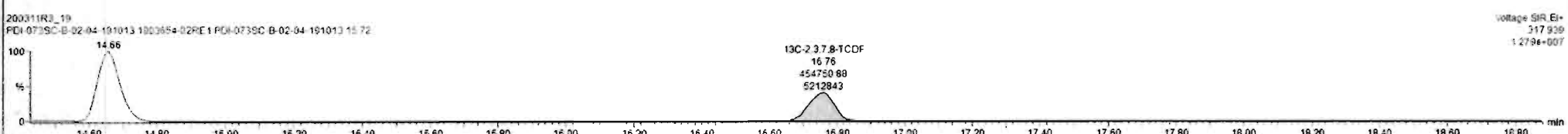
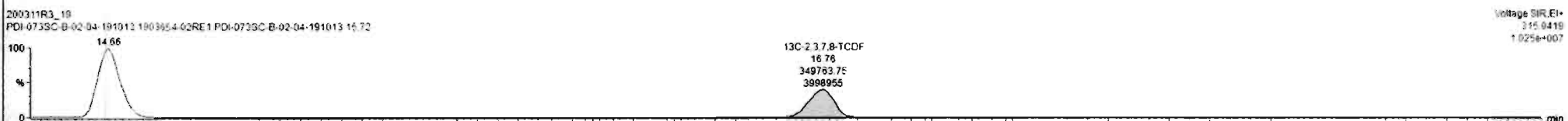
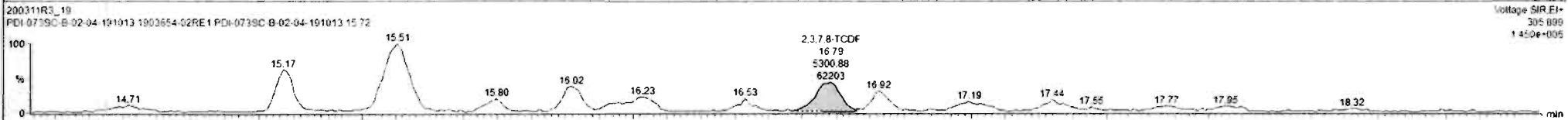
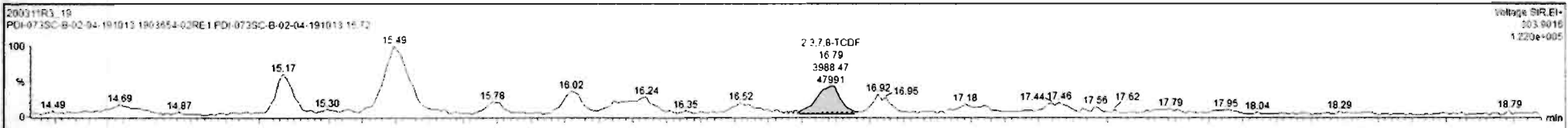
Voltage SIR,EI+
315.9419
1.025e+007

200311R3_19



Voltage SIR,EI+
317.939
1.279e+007

Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	9.29e3	0.75	NO	0.82	10.098	16.79	1.001	2.79		0.565	2.79
2 13C-2,3,7,8-TCDF	8.05e5	0.77	NO	1.10	10.098	16.76	1.144	81.6	41.2	0.484	
3 13C-1,2,3,4-TCDF	1.77e6	0.78	NO	1.00	10.098	14.66	1.000	198	100	0.533	
4 13C-1,2,3,4-TCDD	7.03e5	0.68	NO	11994	10.098	15.32	0.200	5.80	2.93	0.0168	
5 PFK1											
6 DPE1					1.000						



Dataset: Untitled

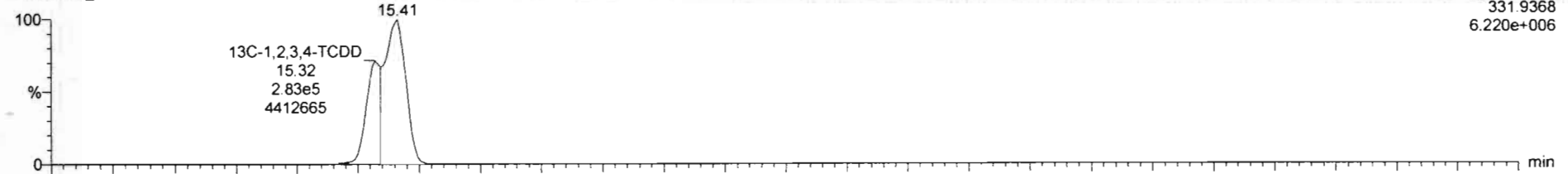
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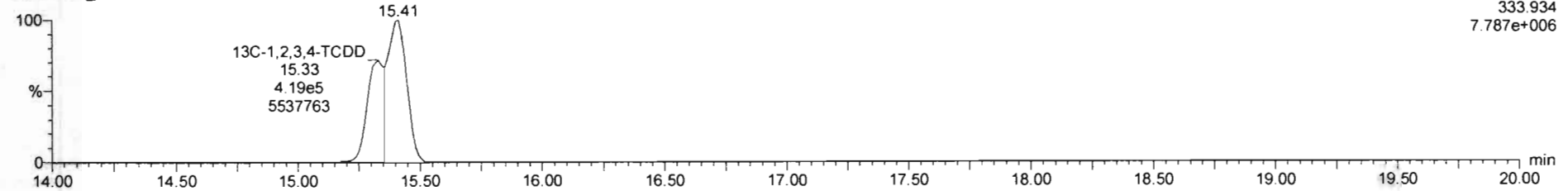
Name: 200311R3_19, Date: 12-Mar-2020, Time: 00:49:46, ID: 1903654-02RE1 PDI-073SC-B-02-04-191013 15.72, Description: PDI-073SC-B-02-04-191013

13C-1,2,3,4-TCDD

200311R3_19

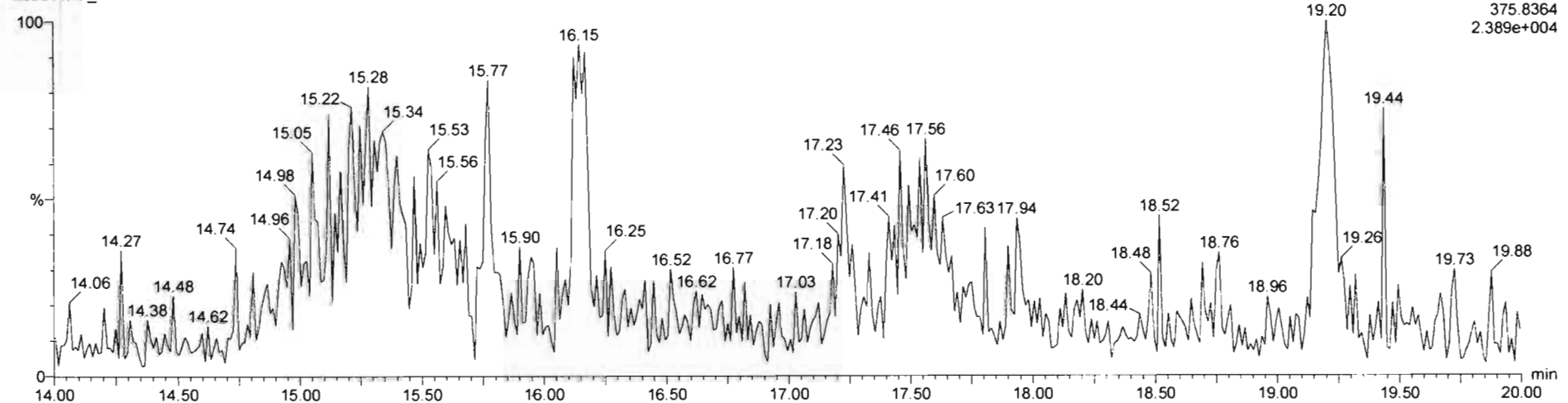


200311R3_19



DPE1

200311R3_19



Dataset: U:\VG12.PRO\Results\200311R3\200311R3-20.qld

Last Altered: Thursday, March 12, 2020 09:03:33 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:04:18 Pacific Daylight Time

GPB 03/12/2020

CT 03/13/2020

Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_20, Date: 12-Mar-2020, Time: 01:20:15, ID: 1903654-04RE1 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.35e3	0.72	NO	0.821	10.030	16.69	0.82609		0.397
2	2 13C-2,3,7,8-TCDF	1.28e6	0.77	NO	1.10	10.030	16.66	99.403	49.9	0.363
3	3 13C-1,2,3,4-TCDF	2.33e6	0.79	NO	1.00	10.030	14.59	199.40	100	0.400

Dataset: Untitled

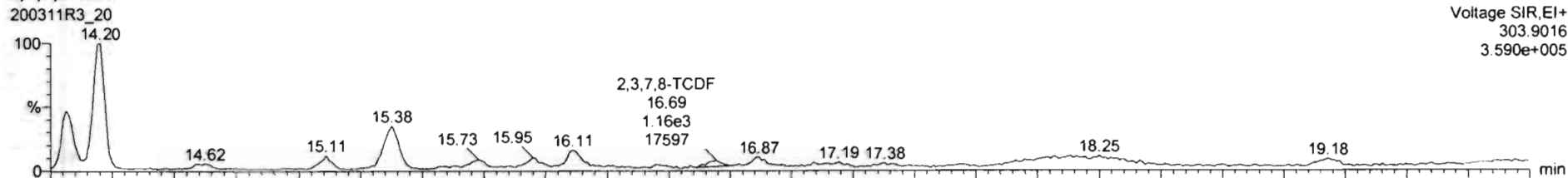
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Printed: Thursday, March 12, 2020 09:05:00 Pacific Daylight Time

Method: Untitled 11 Mar 2020 07:47:30

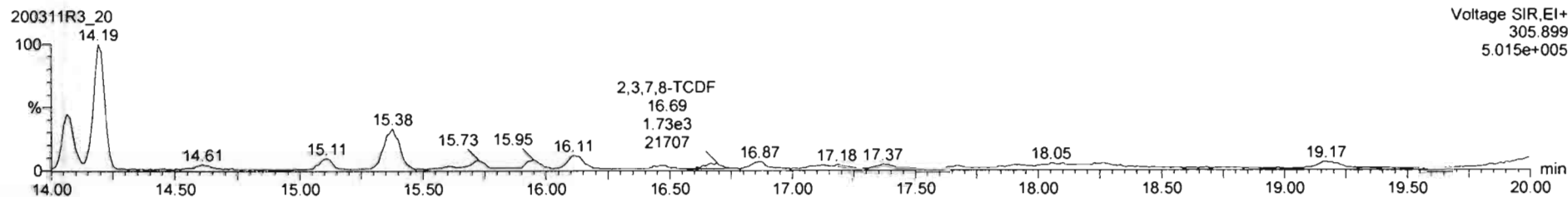
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_20, Date: 12-Mar-2020, Time: 01:20:15, ID: 1903654-04RE1 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

2,3,7,8-TCDF

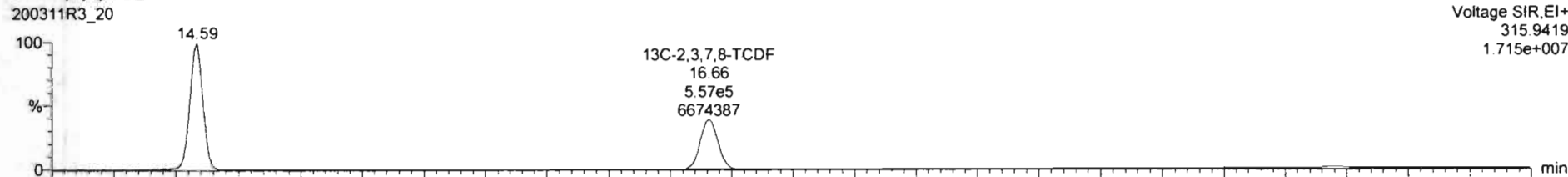


Voltage SIR,EI+
303.9016
3.590e+005

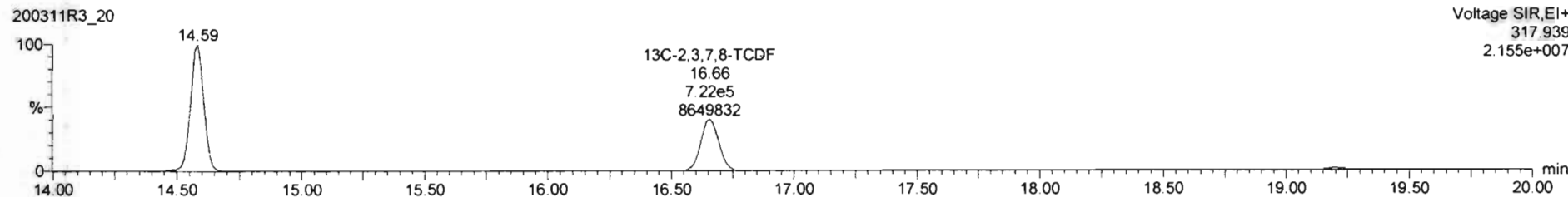


Voltage SIR,EI+
305.899
5.015e+005

13C-2,3,7,8-TCDF



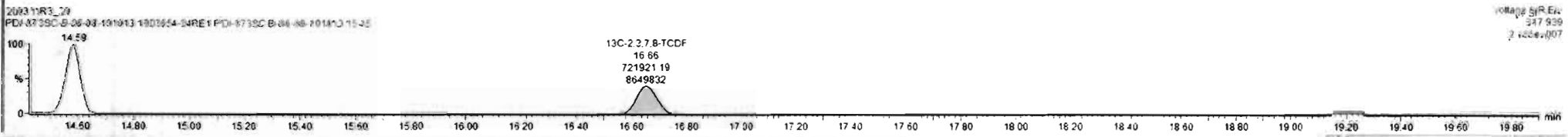
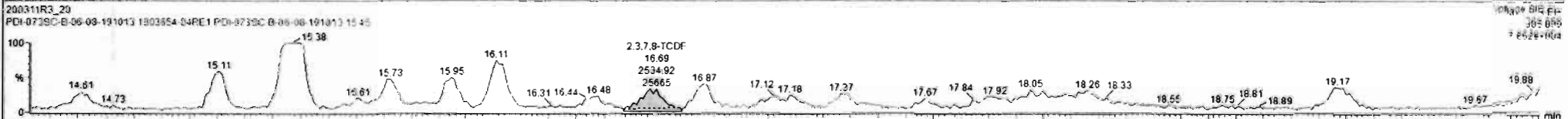
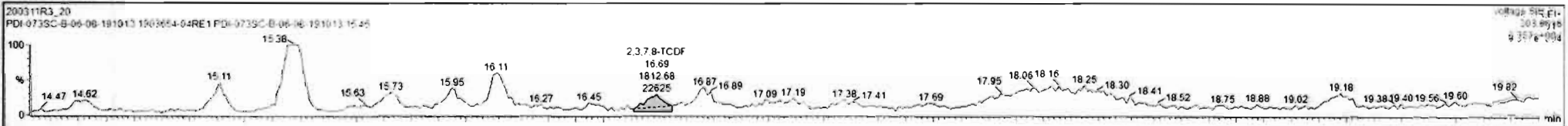
Voltage SIR,EI+
315.9419
1.715e+007



Voltage SIR,EI+
317.939
2.155e+007

200311R3_20 - 1903654-04RE1 PDI-073SC-B-06-08-191013 15:45 - PDI-073SC-B-06-08-191013

Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	4.35e3	0.72	NO	0.82	10.030	16.69	1.002	0.826		0.397	0.826
2 13C-2,3,7,8-TCDF	1.28e6	0.77	NO	1.10	10.030	16.66	1.142	99.4	49.9	0.363	
3 13C-1,2,3,4-TCDF	2.33e6	0.79	NO	1.00	10.030	14.59	1.000	199	100	0.400	
4 13C-1,2,3,4-TCDD	1.04e6	0.78	NO	11994	10.030	15.22	0.900	8.65	4.34	0.0268	
5 PFK1											
6 DPE1						1.000					



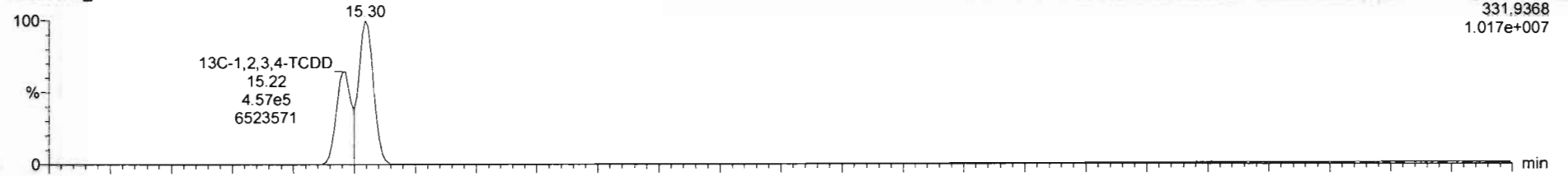
Dataset: Untitled

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Printed: Thursday, March 12, 2020 09:05:00 Pacific Daylight Time

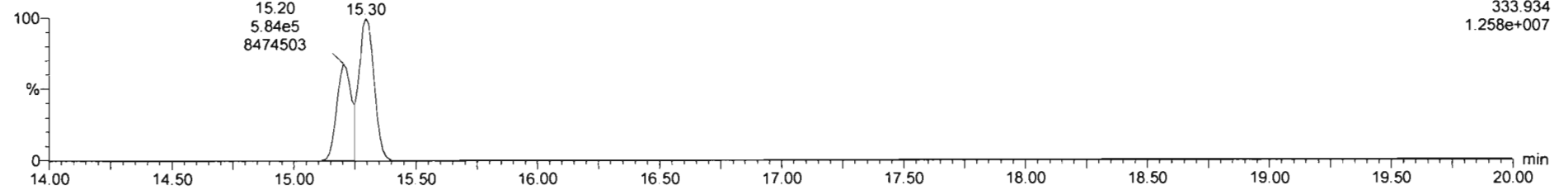
Name: 200311R3_20, Date: 12-Mar-2020, Time: 01:20:15, ID: 1903654-04RE1 PDI-073SC-B-06-08-191013 15.45, Description: PDI-073SC-B-06-08-191013

13C-1,2,3,4-TCDD

200311R3_20

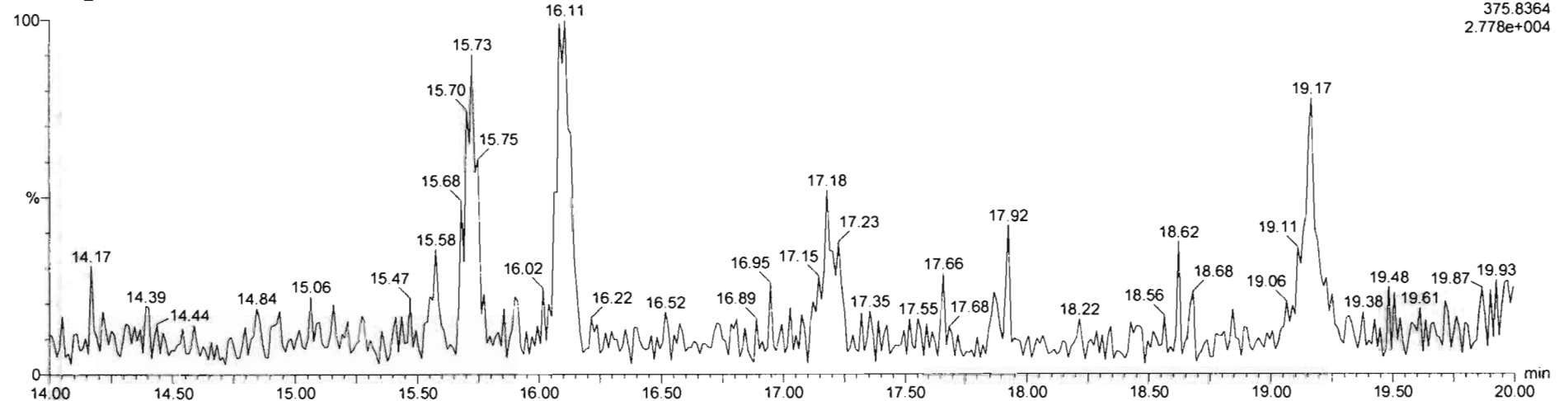


200311R3_20



DPE1

200311R3_20



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_8.qld

Last Altered: Tuesday, March 24, 2020 14:42:59 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 14:44:45 Pacific Daylight Time

DB 3/24/20 03/27/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_8, Date: 24-Mar-2020, Time: 14:05:06, ID: 1903654-05RE4 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.79e4	0.79	NO	0.982	10.003	✓ 17.887	17.88	1.000	1.001	428.60		4.22	429
2	2 13C-2,3,7,8-TCDF	1.33e4	0.80	NO	1.08	10.003	17.875	17.87	1.133	1.137	102.79	51.4	4.63	
3	3 13C-1,2,3,4-TCDF	2.38e4	0.81	NO	1.00	10.003	15.660	15.72	1.000	1.000	199.94	100	5.02	

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_8.qld

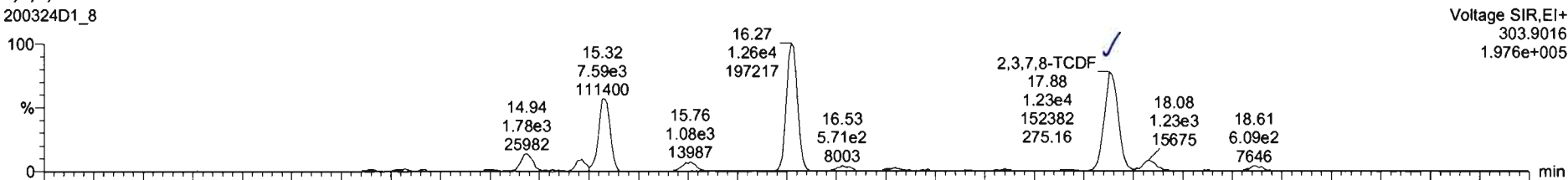
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Printed: Tuesday, March 24, 2020 14:45:44 Pacific Daylight Time

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Calibration: U:\VG7.PRO\CurveDB\tdb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

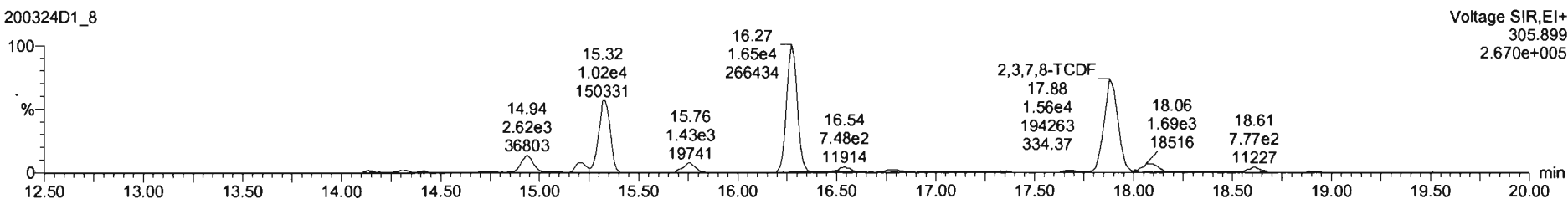
Name: 200324D1_8, Date: 24-Mar-2020, Time: 14:05:06, ID: 1903654-05RE4 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

2,3,7,8-TCDF

200324D1_8

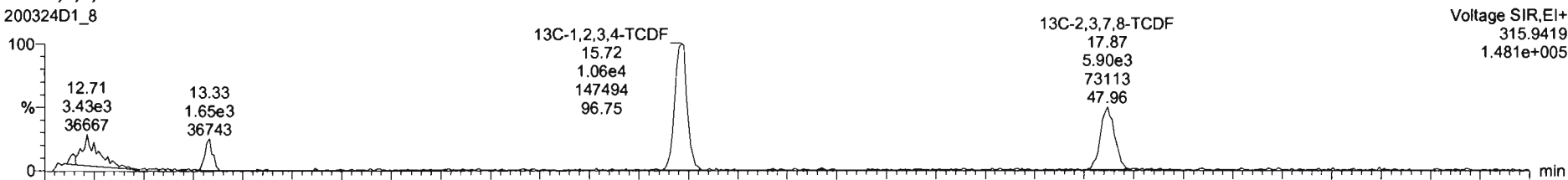


200324D1_8

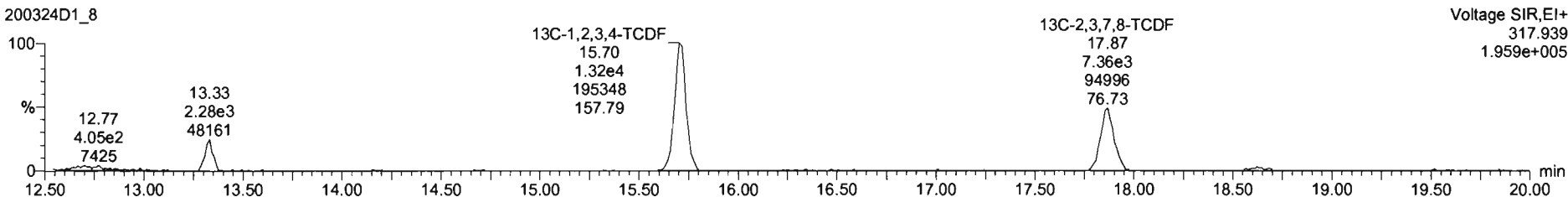


13C-2,3,7,8-TCDF

200324D1_8



200324D1_8



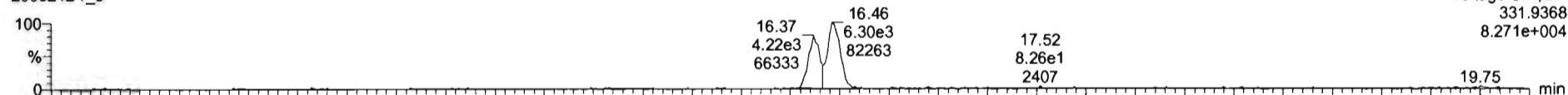
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Last Altered: Tuesday, March 24, 2020 14:42:59 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 14:45:44 Pacific Daylight Time

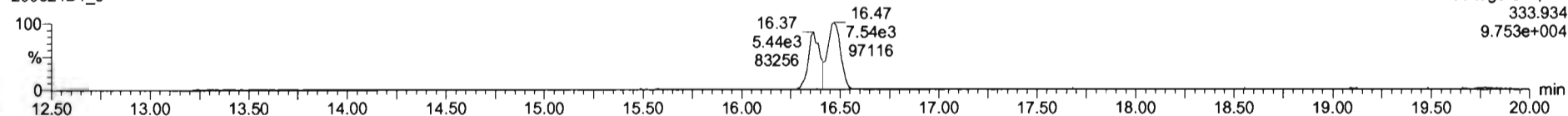
Name: 200324D1_8, Date: 24-Mar-2020, Time: 14:05:06, ID: 1903654-05RE4 PDI-075SC-B-00-02-191013 20.09, Description: PDI-075SC-B-00-02-191013

13C-1,2,3,4-TCDD

200324D1_8

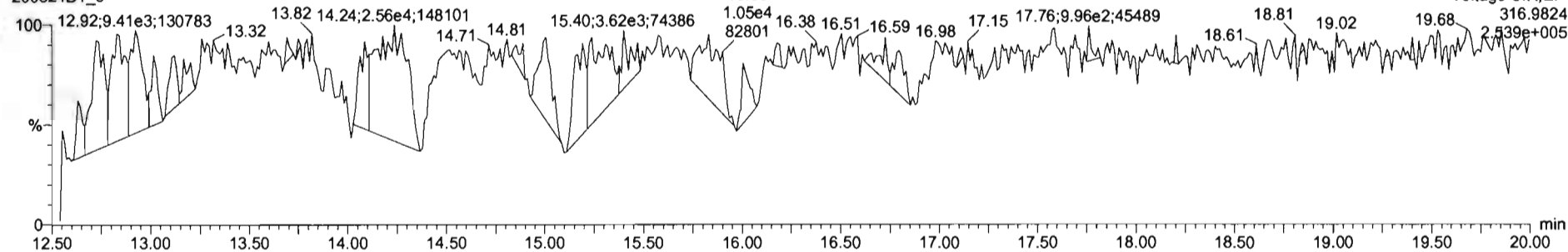


200324D1_8



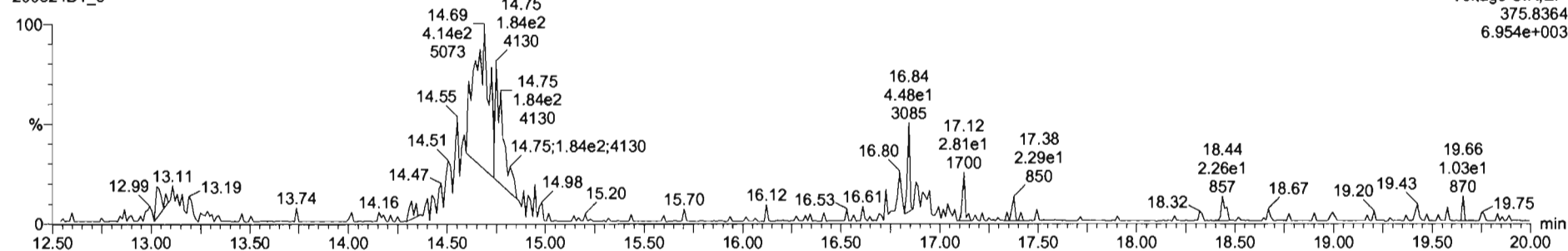
PFK1

200324D1_8



DPE1

200324D1_8



Dataset: U:\VG12.PRO\Results\200311R3\200311R3-21.qld

Last Altered: Thursday, March 12, 2020 09:05:06 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:06:13 Pacific Daylight Time

GRB 03/12/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_21, Date: 12-Mar-2020, Time: 01:50:43, ID: 1903654-06RE1 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.30e6	0.77	NO	0.821	10.052	16.62	138.25		0.261
2	2 13C-2,3,7,8-TCDF	2.28e6	0.78	NO	1.10	10.052	16.60	161.95	81.4	0.314
3	3 13C-1,2,3,4-TCDF	2.55e6	0.78	NO	1.00	10.052	14.51	198.97	100	0.345

Dataset: Untitled

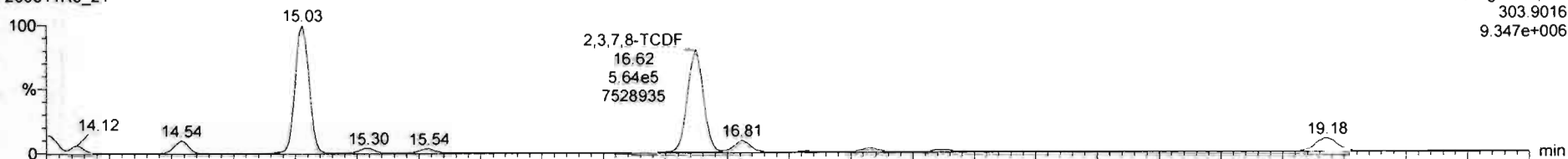
Last Altered: Thursday, March 12, 2020 09:05:06 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:05:12 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Sample ID: 1903654-06RE1 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

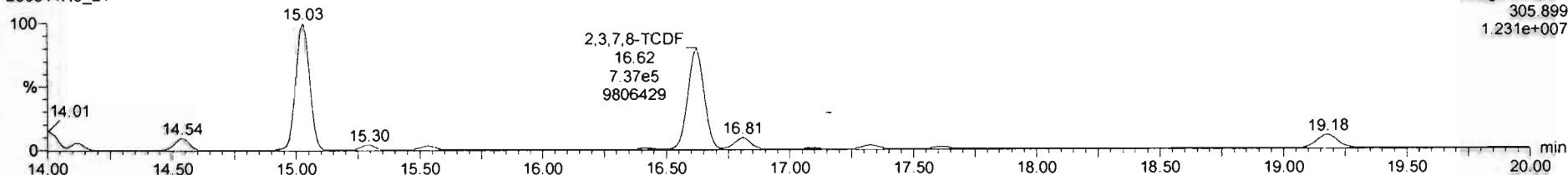
2,3,7,8-TCDF

200311R3_21



Voltage SIR,EI+
303.9016
9.347e+006

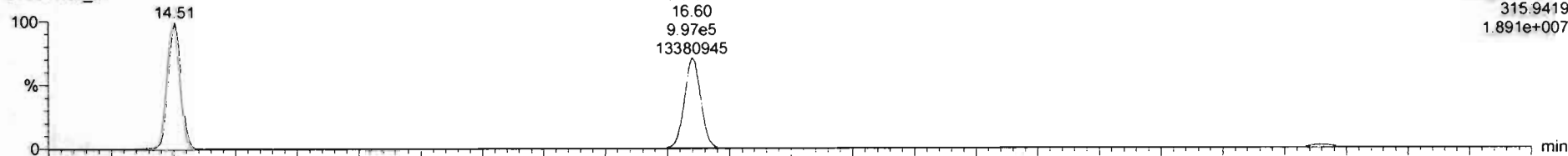
200311R3_21



Voltage SIR,EI+
305.899
1.231e+007

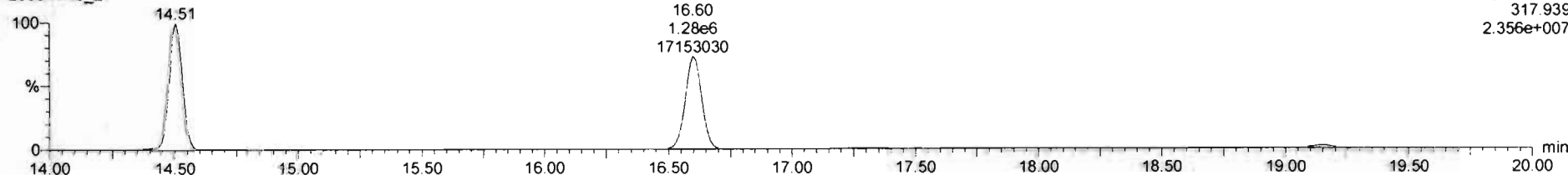
13C-2,3,7,8-TCDF

200311R3_21



Voltage SIR,EI+
315.9419
1.891e+007

200311R3_21



Voltage SIR,EI+
317.939
2.356e+007

Dataset: Untitled

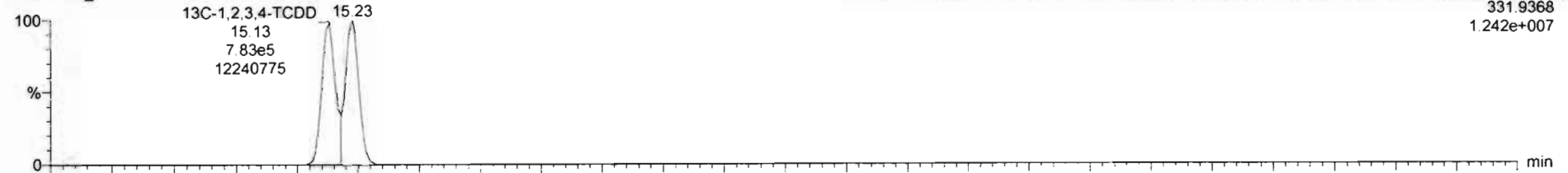
Last Altered: Thursday, March 12, 2020 09:05:06 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:05:12 Pacific Daylight Time

Name: 200311R3_21, Date: 12-Mar-2020, Time: 01:50:43, ID: 1903654-06RE1 PDI-075SC-B-02-04-191013 17.76, Description: PDI-075SC-B-02-04-191013

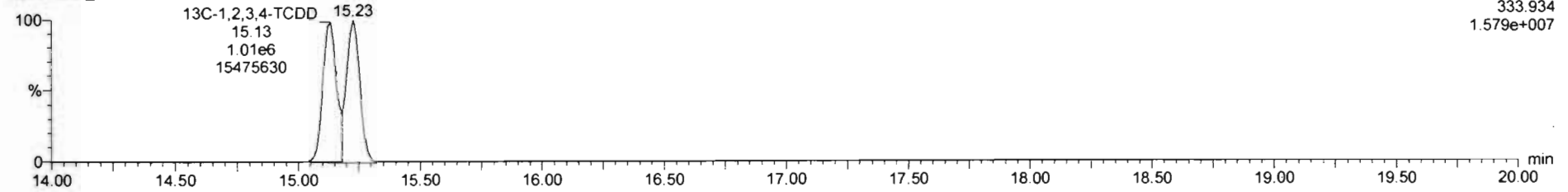
13C-1,2,3,4-TCDD

200311R3_21



Voltage SIR, EI+
331.9368
1.242e+007

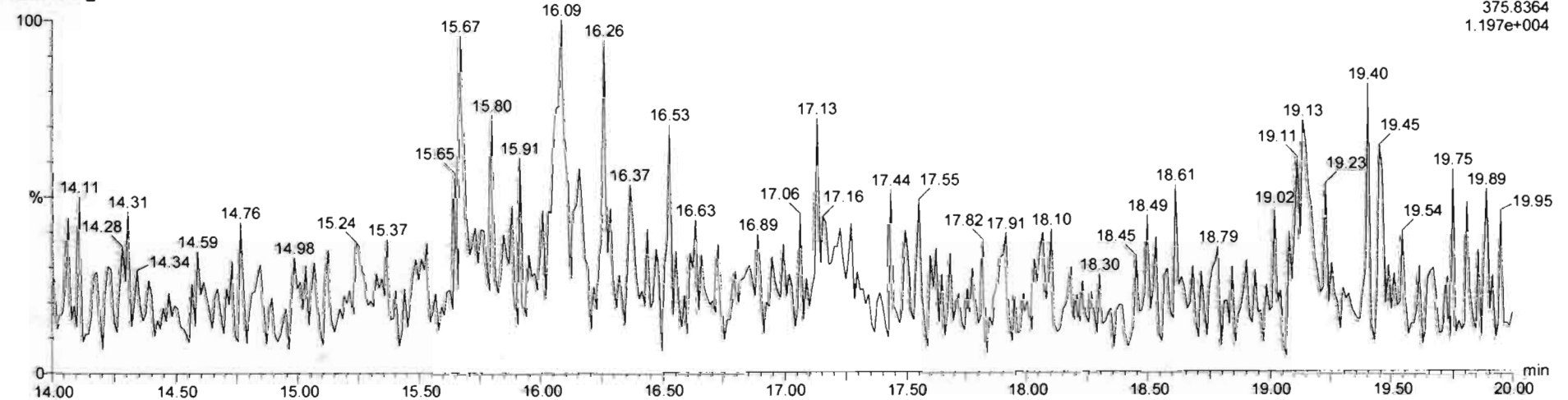
200311R3_21



Voltage SIR, EI+
333.934
1.579e+007

DPE1

200311R3_21



Voltage SIR, EI+
375.8364
1.197e+004

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-23.qld

Last Altered: Thursday, March 12, 2020 09:08:30 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:09:00 Pacific Daylight Time

GRB 03/12/2020

Q7 03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_23, Date: 12-Mar-2020, Time: 02:51:37, ID: 1903654-07RE1 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	8.47e4	0.75	NO	0.821	10.091	16.60	8.8293		0.647
2	2 13C-2,3,7,8-TCDF	2.32e6	0.78	NO	1.10	10.091	16.58	163.54	82.5	0.529
3	3 13C-1,2,3,4-TCDF	2.55e6	0.79	NO	1.00	10.091	14.48	198.19	100	0.582

Dataset: Untitled

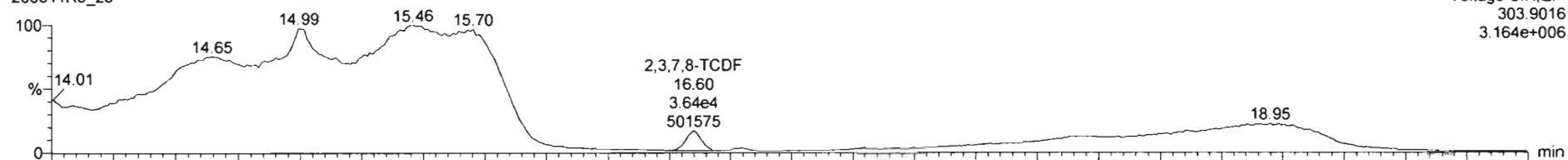
Last Altered: Thursday, March 12, 2020 09:08:30 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:08:38 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_23, Date: 12-Mar-2020, Time: 02:51:37, ID: 1903654-07RE1 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

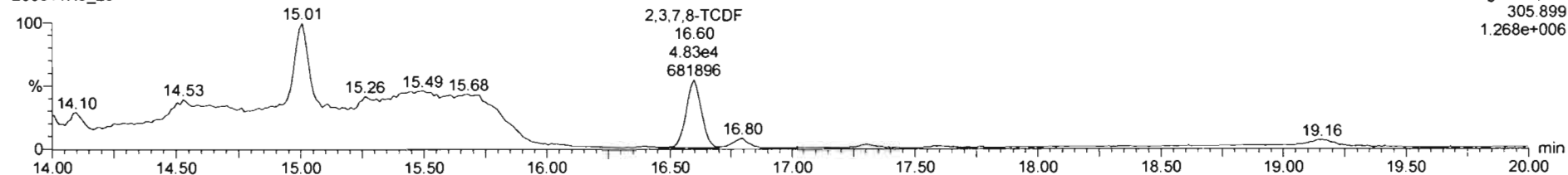
2,3,7,8-TCDF

200311R3_23



Voltage SIR, EI+
303.9016
3.164e+006

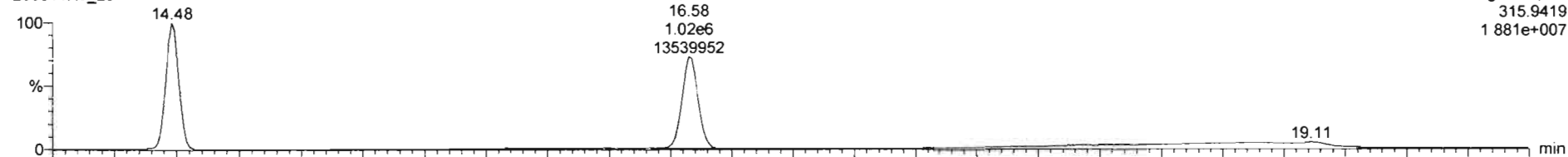
200311R3_23



Voltage SIR, EI+
305.899
1.268e+006

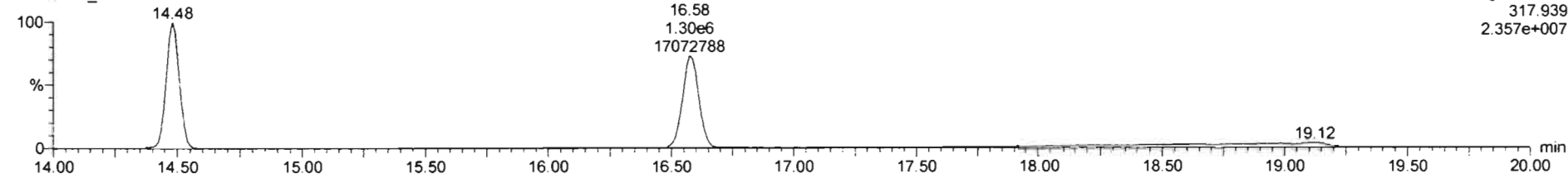
13C-2,3,7,8-TCDF

200311R3_23



Voltage SIR, EI+
315.9419
1.881e+007

200311R3_23



Voltage SIR, EI+
317.939
2.357e+007

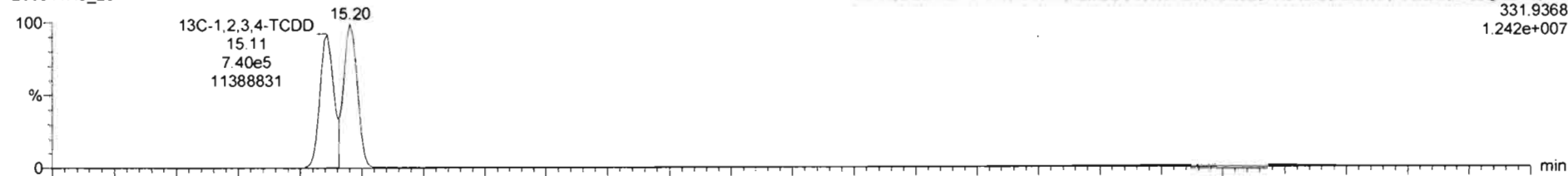
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:08:30 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:08:38 Pacific Daylight Time

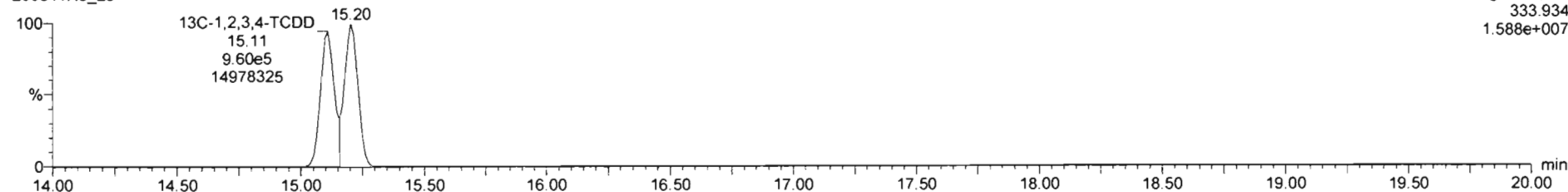
Name: 200311R3_23, Date: 12-Mar-2020, Time: 02:51:37, ID: 1903654-07RE1 PDI-075SC-B-04-06-191013 16.7, Description: PDI-075SC-B-04-06-191013

13C-1,2,3,4-TCDD

200311R3_23

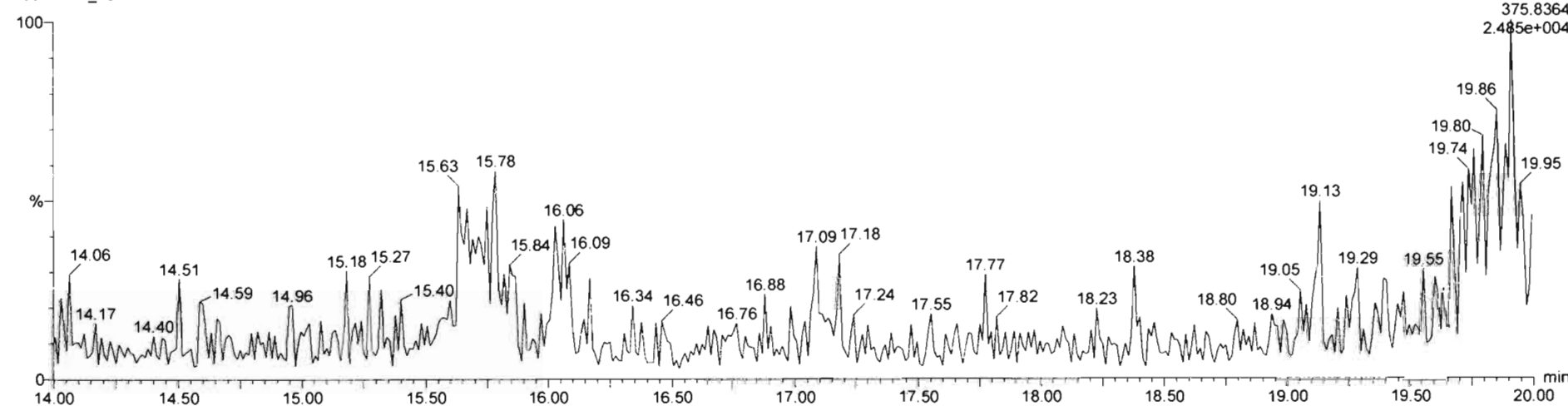


200311R3_23



DPE1

200311R3_23



Dataset: U:\VG12.PRO\Results\200311R3\200311R3-22.qld

Last Altered: Friday, March 13, 2020 12:20:47 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:37 Pacific Daylight Time

GRB 03/13/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_22, Date: 12-Mar-2020, Time: 02:21:10, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.69e5	0.77	NO	0.821	10.031	16.687	16.68	1.000	1.001	64.457		0.645	64.5
2	2 13C-2,3,7,8-TCDF	1.39e6	0.82	NO	1.10	10.031	16.465	16.66	1.133	1.143	112.09	56.2	0.638	
3	3 13C-1,2,3,4-TCDF	2.25e6	0.79	NO	1.00	10.031	14.450	14.58	1.000	1.000	199.38	100	0.702	

Dataset: Untitled

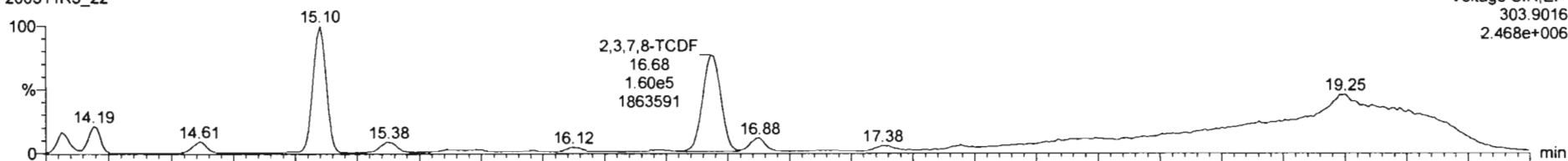
Last Altered: Friday, March 13, 2020 12:20:47 Pacific Daylight Time
Printed: Friday, March 13, 2020 12:21:01 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

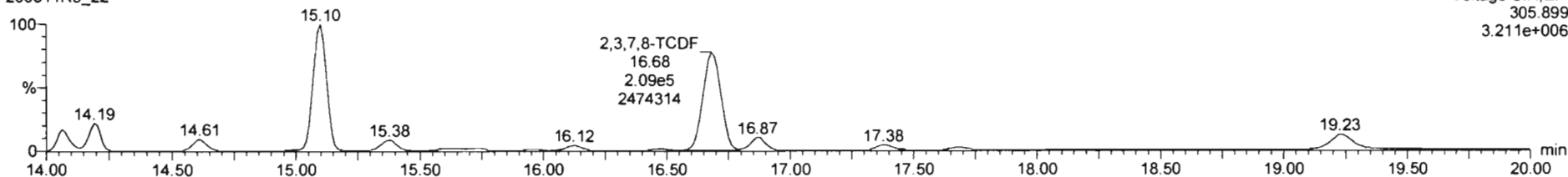
Name: 200311R3_22, Date: 12-Mar-2020, Time: 02:21:10, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

2,3,7,8-TCDF

200311R3_22

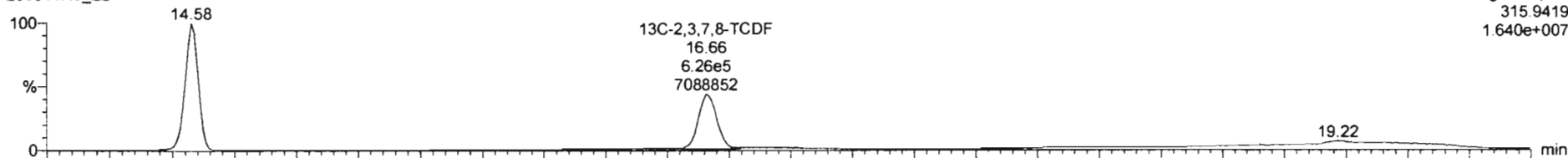


200311R3_22

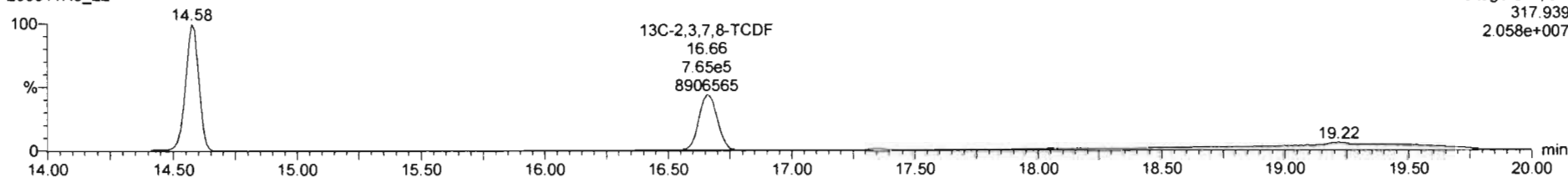


13C-2,3,7,8-TCDF

200311R3_22



200311R3_22



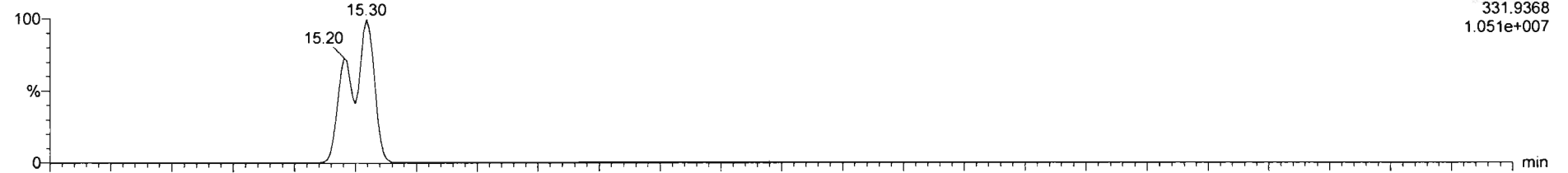
Dataset: Untitled

Last Altered: Friday, March 13, 2020 12:20:47 Pacific Daylight Time
Printed: Friday, March 13, 2020 12:21:01 Pacific Daylight Time

Name: 200311R3_22, Date: 12-Mar-2020, Time: 02:21:10, ID: B0A0056-DUP1 Duplicate 16.6, Description: Duplicate

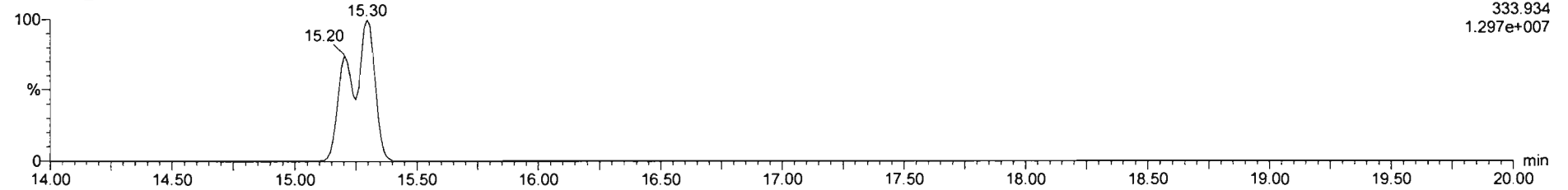
13C-1,2,3,4-TCDD

200311R3_22



Voltage SIR, EI+
331.9368
1.051e+007

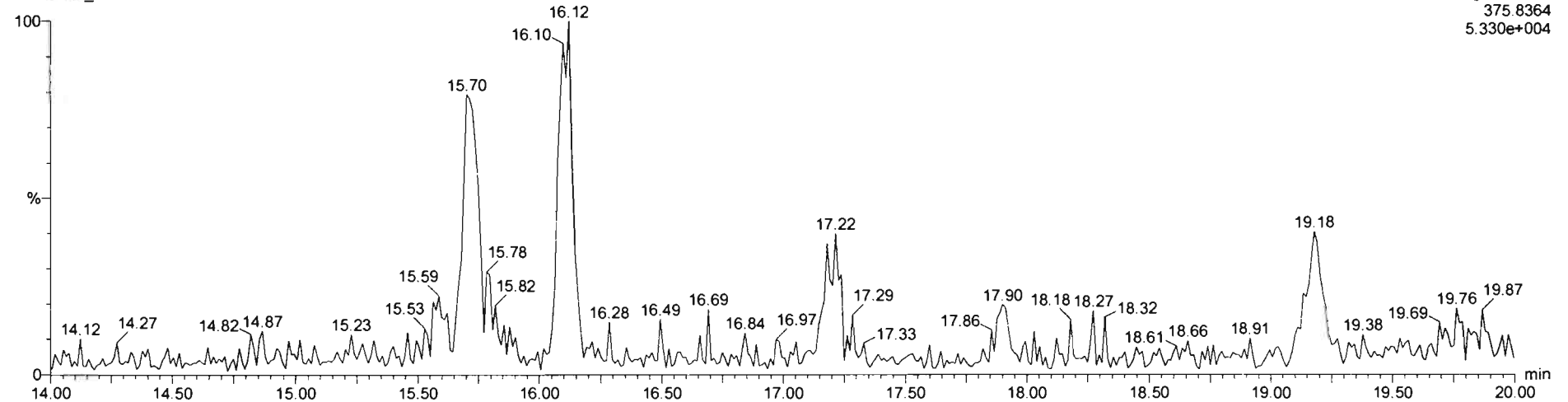
200311R3_22



Voltage SIR, EI+
333.934
1.297e+007

DPE1

200311R3_22



Voltage SIR, EI+
375.8364
5.330e+004

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_9.qld

Last Altered: Tuesday, March 24, 2020 15:02:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 15:03:10 Pacific Daylight Time

DB 3/24/20 07 03/27/2020

Method: Untitled 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_9, Date: 24-Mar-2020, Time: 14:36:46, ID: 1903654-08RE4 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	4.50e3	0.80	NO	0.982	10.212	18.146	18.15	1.000	1.000	14.090		1.09	14.1
2	2 13C-2,3,7,8-TCDF	6.36e4	0.78	NO	1.08	10.212	18.149	18.15	1.133	1.127	115.04	58.7	5.13	
3	3 13C-1,2,3,4-TCDF	1.00e5	0.79	NO	1.00	10.212	16.100	16.10	1.000	1.000	195.84	100	5.55	

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_9.qld

Last Altered: Tuesday, March 24, 2020 15:02:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 15:03:30 Pacific Daylight Time

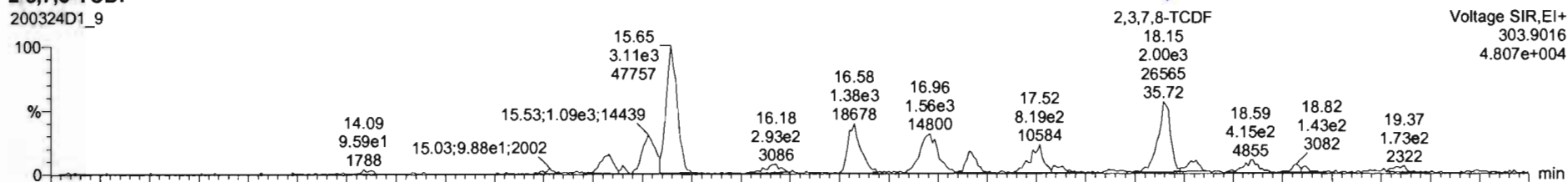
Method: Untitled 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

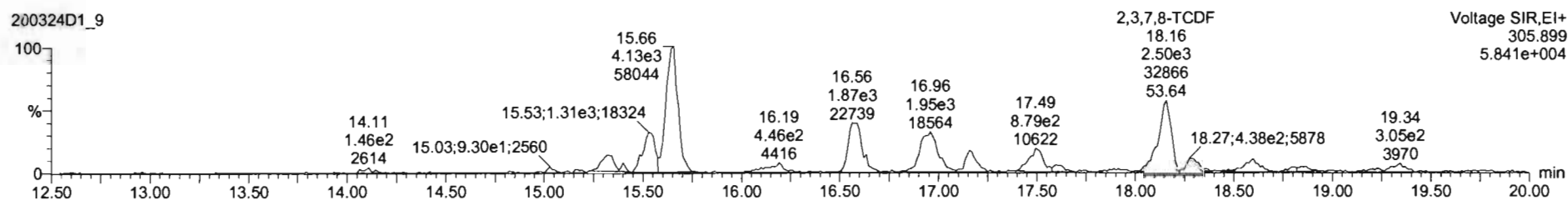
Name: 200324D1_9, Date: 24-Mar-2020, Time: 14:36:46, ID: 1903654-08RE4 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

2,3,7,8-TCDF

200324D1_9

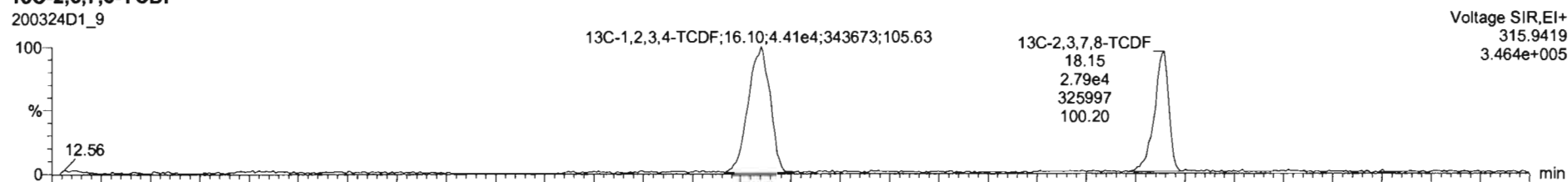


200324D1_9

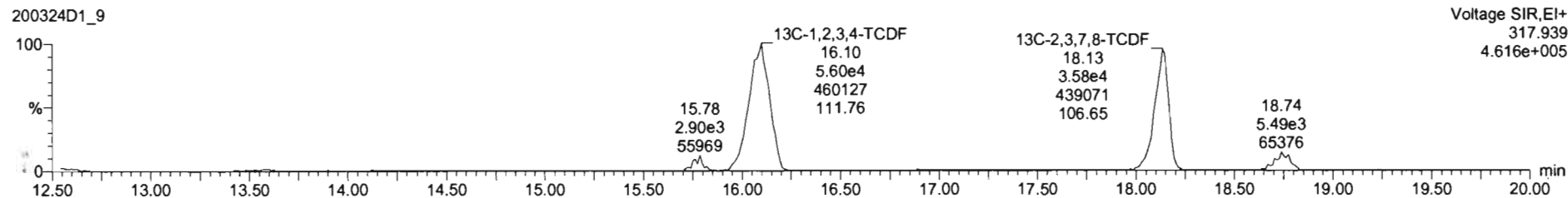


13C-2,3,7,8-TCDF

200324D1_9



200324D1_9



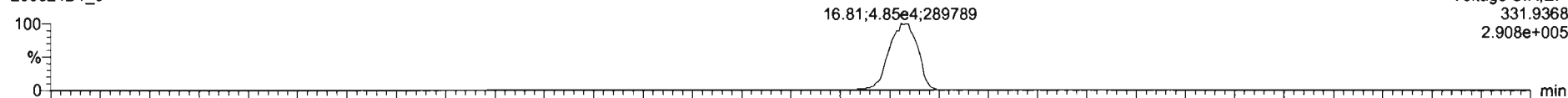
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_9.qld

Last Altered: Tuesday, March 24, 2020 15:02:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 15:03:30 Pacific Daylight Time

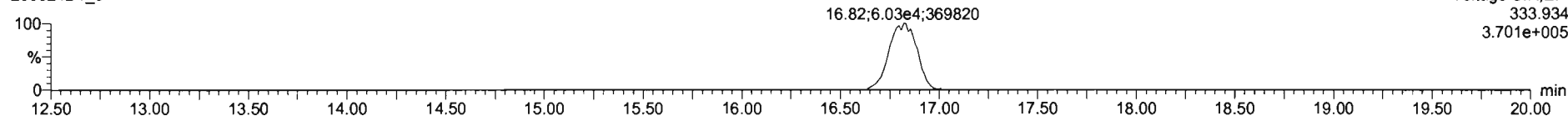
Name: 200324D1_9, Date: 24-Mar-2020, Time: 14:36:46, ID: 1903654-08RE4 PDI-075SC-B-06-08-191013 16.51, Description: PDI-075SC-B-06-08-191013

13C-1,2,3,4-TCDD

200324D1_9

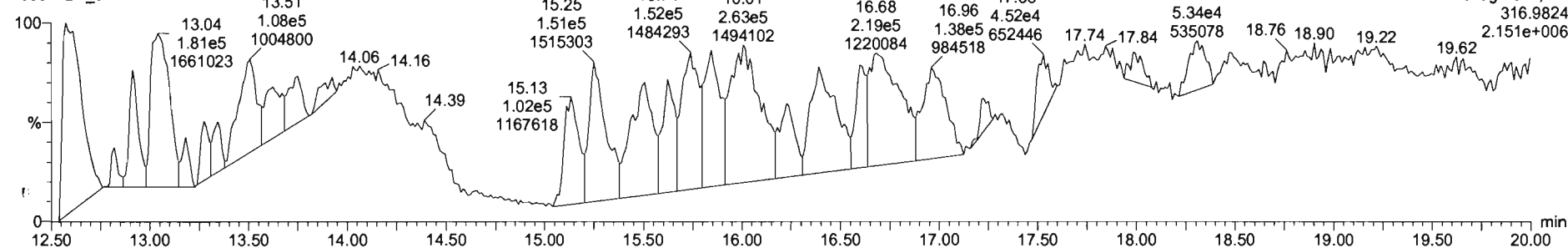


200324D1_9



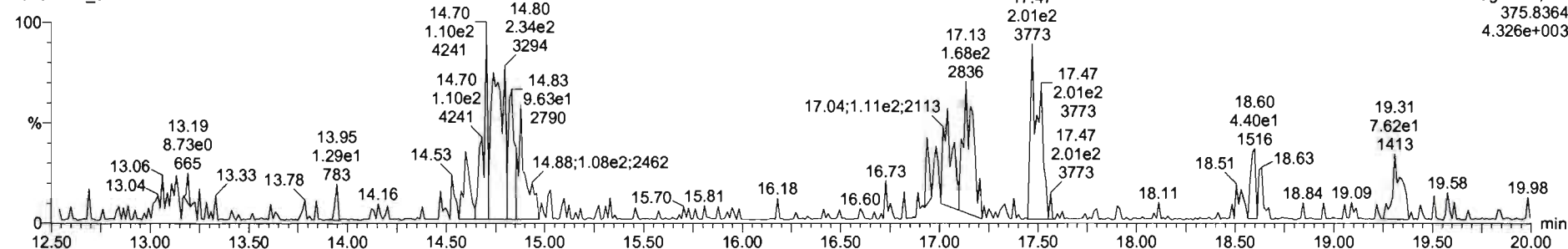
PK1

200324D1_9



DPE1

200324D1_9



Dataset: U:\VG12.PRO\Results\200311R3\200311R3-24.qld

Last Altered: Thursday, March 12, 2020 09:10:10 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:10:39 Pacific Daylight Time

GRB 03/12/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_24, Date: 12-Mar-2020, Time: 03:22:06, ID: 1903654-09RE1 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	8.08e4	0.76	NO	0.821	10.012	✓16.59	6.5972		0.585
2	2 13C-2,3,7,8-TCDF	2.98e6	0.77	NO	1.10	10.012	16.56	210.08	105	0.900
3	3 13C-1,2,3,4-TCDF	2.57e6	0.79	NO	1.00	10.012	14.46	199.76	100	0.991

Dataset: Untitled

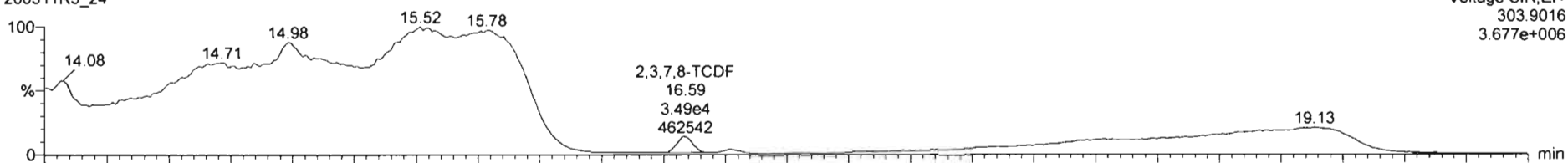
Last Altered: Thursday, March 12, 2020 09:10:10 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:10:16 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

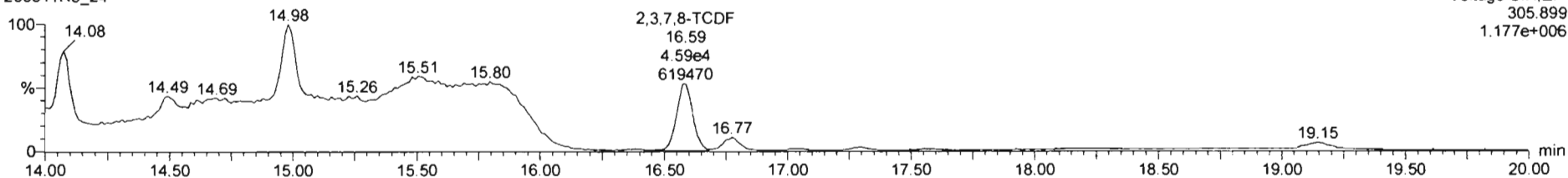
Name: 200311R3_24, Date: 12-Mar-2020, Time: 03:22:06, ID: 1903654-09RE1 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

2,3,7,8-TCDF

200311R3_24

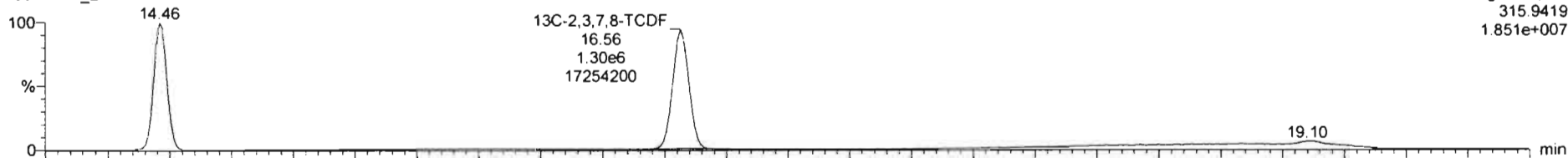


200311R3_24

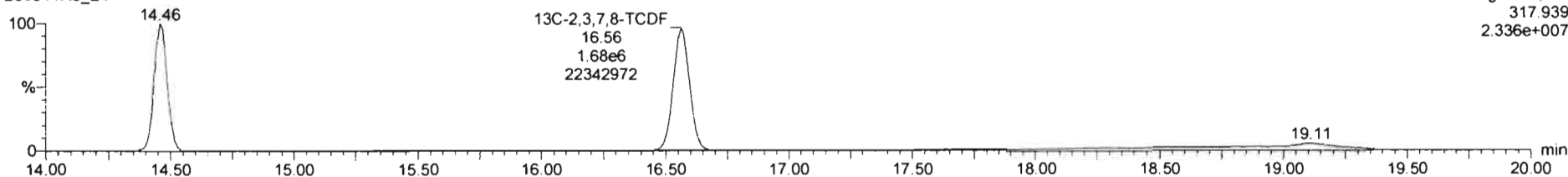


13C-2,3,7,8-TCDF

200311R3_24



200311R3_24



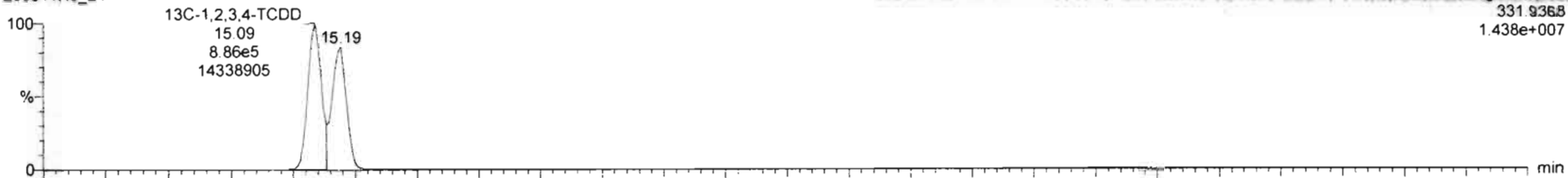
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:10:10 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:10:16 Pacific Daylight Time

Name: 200311R3_24, Date: 12-Mar-2020, Time: 03:22:06, ID: 1903654-09RE1 PDI-076SC-B-00-02-191013 18.3, Description: PDI-076SC-B-00-02-191013

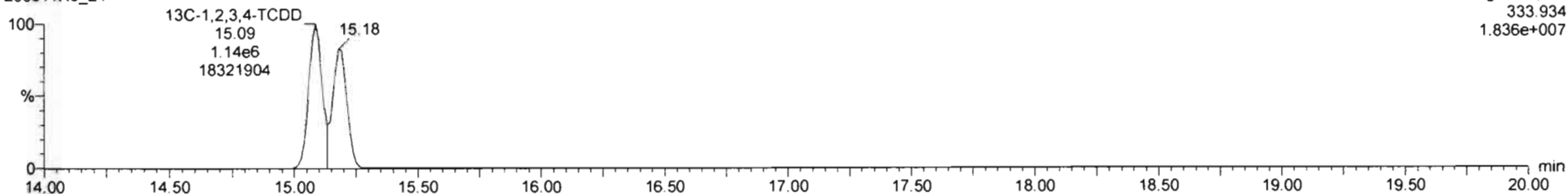
13C-1,2,3,4-TCDD

200311R3_24



Voltage SIR, EI+
331.9368
1.438e+007

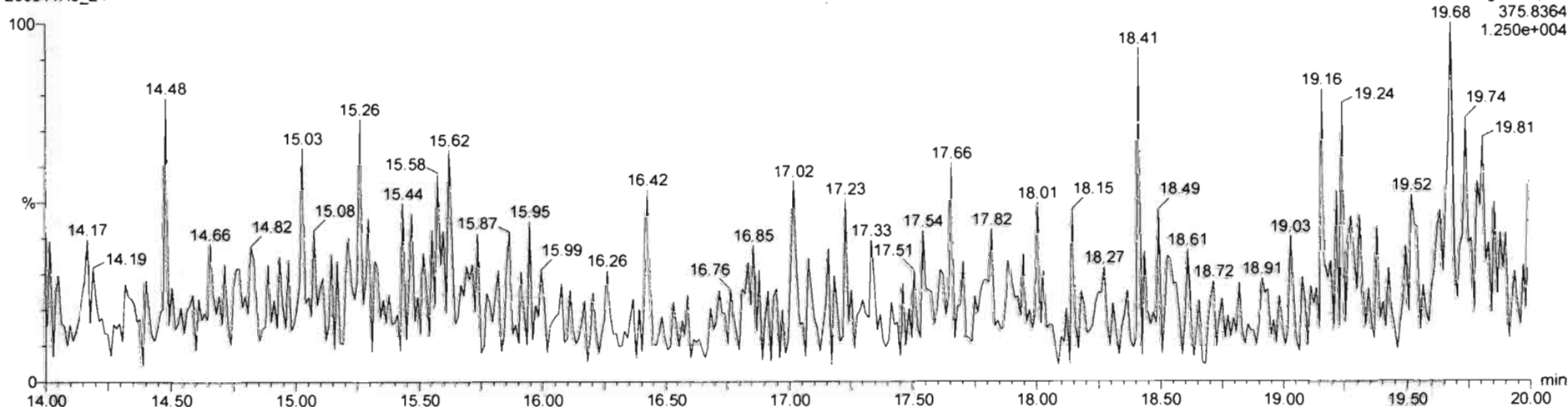
200311R3_24



Voltage SIR, EI+
333.934
1.836e+007

DPE1

200311R3_24



Voltage SIR, EI+
19.68 375.8364
1.250e+004

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-25.qld

Last Altered: Thursday, March 12, 2020 09:10:48 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:12:45 Pacific Daylight Time

GPB 03/12/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_25, Date: 12-Mar-2020, Time: 03:52:34, ID: 1903654-10RE1 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.05e5	0.75	NO	0.821	10.096	16.59 ✓	36.957		0.495
2	2 13C-2,3,7,8-TCDF	2.64e6	0.77	NO	1.10	10.096	16.56	187.02	94.4	1.04
3	3 13C-1,2,3,4-TCDF	2.54e6	0.79	NO	1.00	10.096	14.47	198.10	100	1.14

Dataset: Untitled

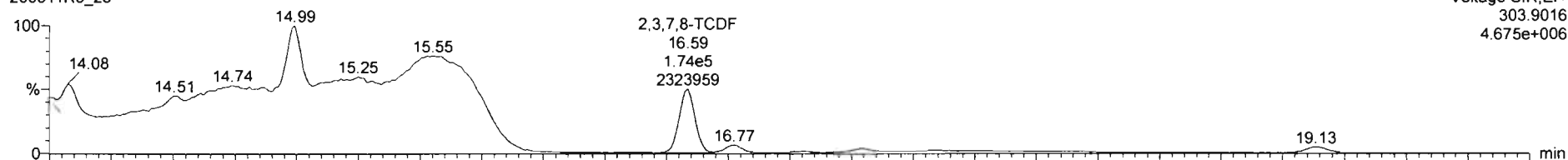
Last Altered: Thursday, March 12, 2020 09:10:48 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:12:15 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

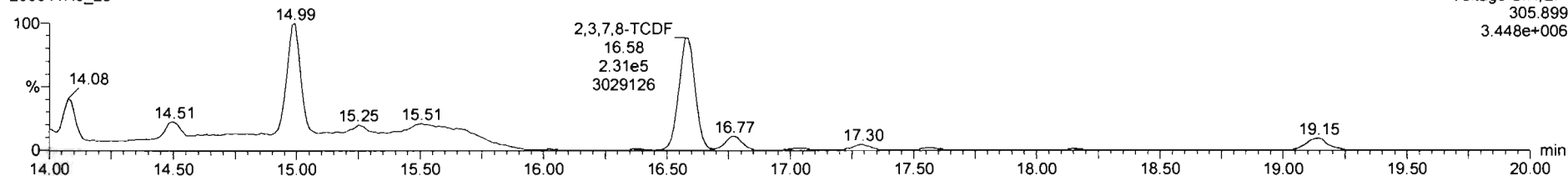
Name: 200311R3_25, Date: 12-Mar-2020, Time: 03:52:34, ID: 1903654-10RE1 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

2,3,7,8-TCDF

200311R3_25

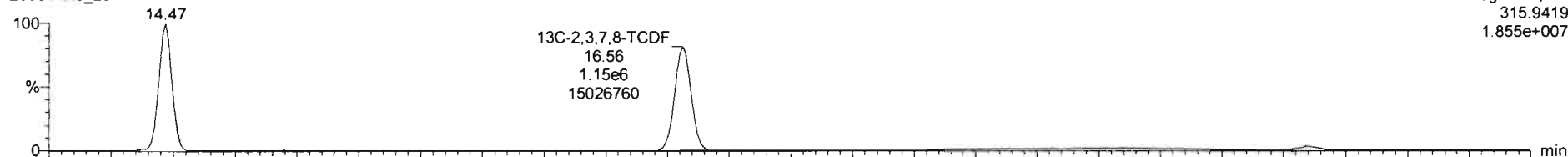


200311R3_25

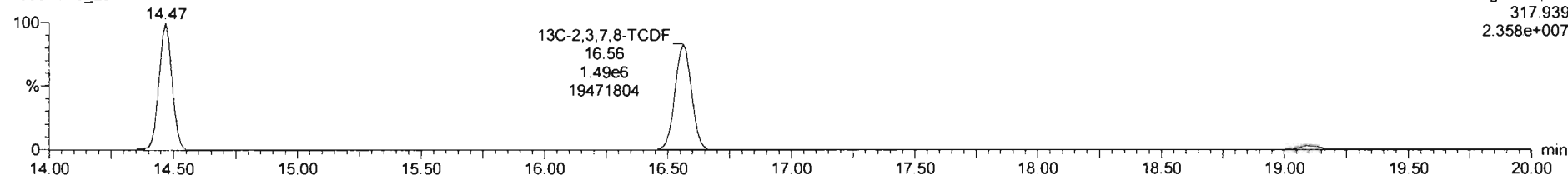


13C-2,3,7,8-TCDF

200311R3_25



200311R3_25



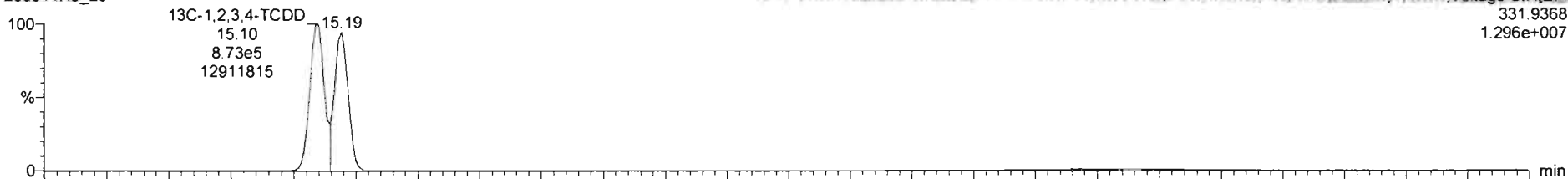
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:10:48 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:12:15 Pacific Daylight Time

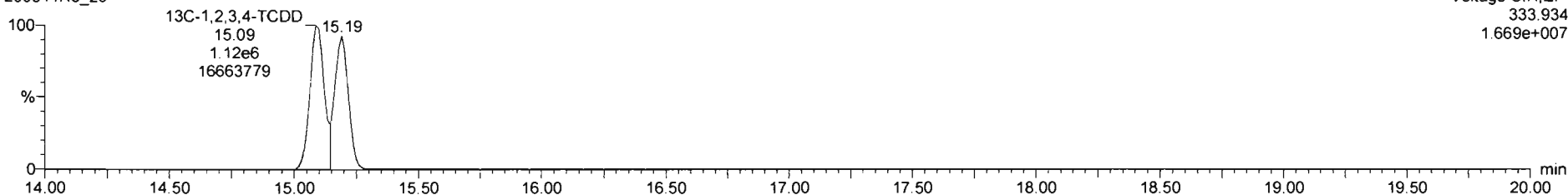
Name: 200311R3_25, Date: 12-Mar-2020, Time: 03:52:34, ID: 1903654-10RE1 PDI-076SC-B-02-05-191013 17.48, Description: PDI-076SC-B-02-05-191013

13C-1,2,3,4-TCDD

200311R3_25

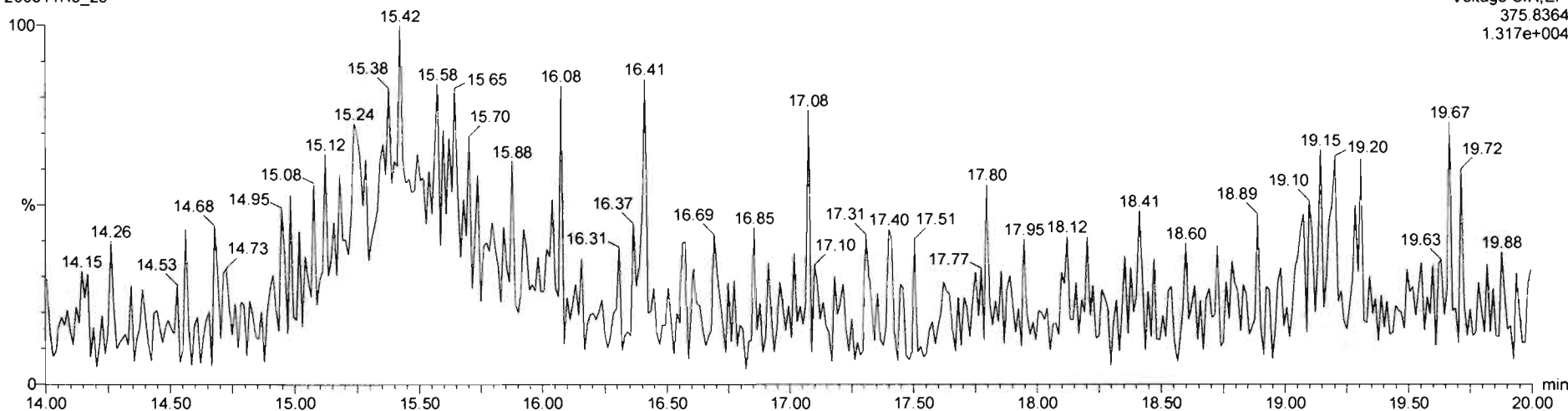


200311R3_25



DPE1

200311R3_25



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_10.qld

Last Altered: Tuesday, March 24, 2020 15:36:32 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 15:37:43 Pacific Daylight Time

DB 3/24/20 C7 03/27/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_10, Date: 24-Mar-2020, Time: 15:08:29, ID: 1903654-11RE4 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	6.29e4	0.77	NO	0.982	10.004	17.887	17.89	1.000	1.001	167.45		1.10	167
2	2 13C-2,3,7,8-TCDF	7.65e4	0.77	NO	1.08	10.004	17.898	17.87	1.133	1.135	137.83	68.9	2.66	
3	3 13C-1,2,3,4-TCDF	1.02e5	0.78	NO	1.00	10.004	15.660	15.74	1.000	1.000	199.91	100	2.89	

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_10.qld

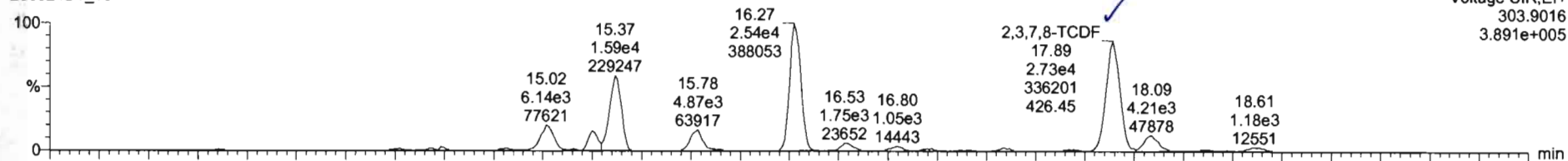
Last Altered: Tuesday, March 24, 2020 15:36:32 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 15:38:03 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_10, Date: 24-Mar-2020, Time: 15:08:29, ID: 1903654-11RE4 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

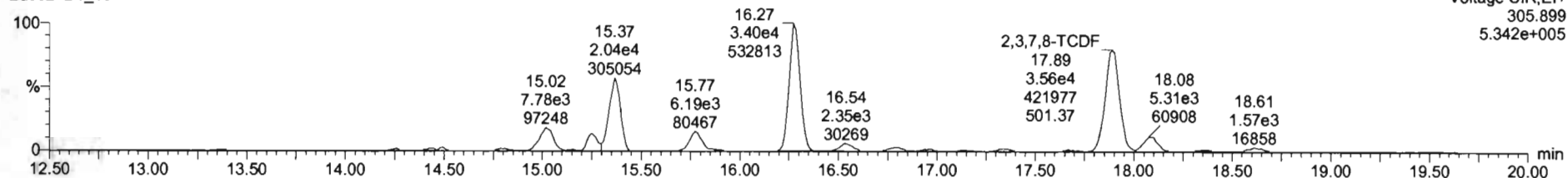
2,3,7,8-TCDF

200324D1_10



Voltage SIR,EI+
303.9016
3.891e+005

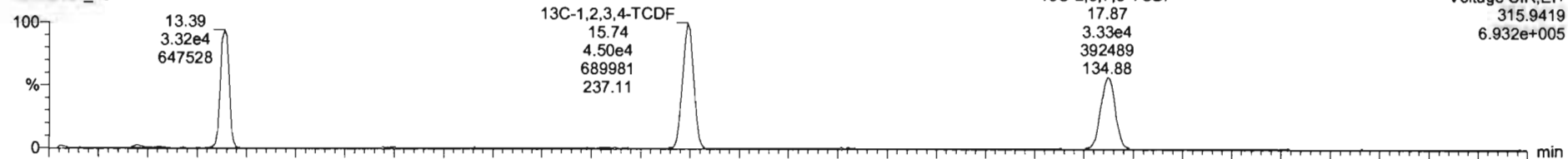
200324D1_10



Voltage SIR,EI+
305.899
5.342e+005

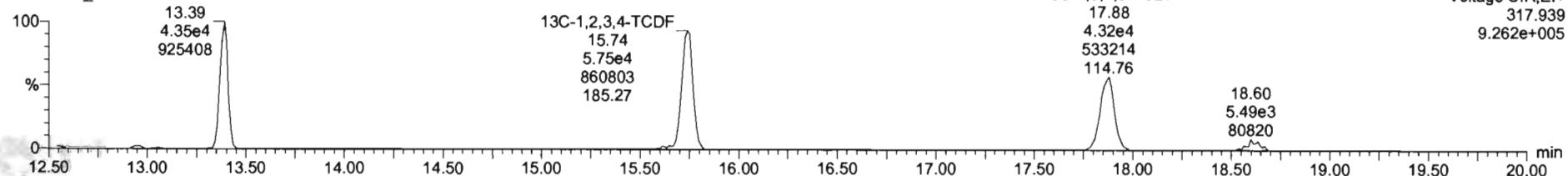
13C-2,3,7,8-TCDF

200324D1_10



Voltage SIR,EI+
315.9419
6.932e+005

200324D1_10



Voltage SIR,EI+
317.939
9.262e+005

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_10.qld

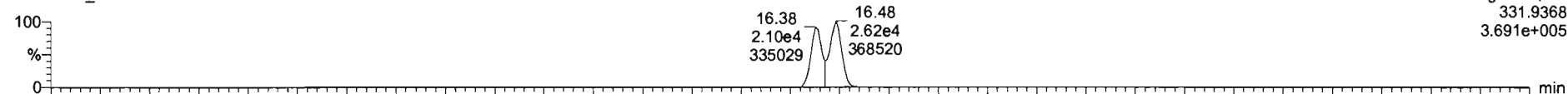
Last Altered: Tuesday, March 24, 2020 15:36:32 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 15:38:03 Pacific Daylight Time

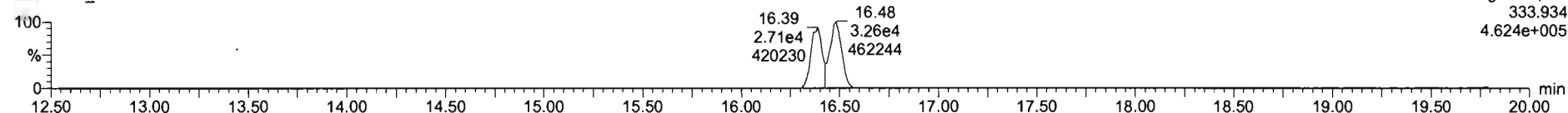
Name: 200324D1_10, Date: 24-Mar-2020, Time: 15:08:29, ID: 1903654-11RE4 PDI-076SC-B-05-07-191013 16.31, Description: PDI-076SC-B-05-07-191013

13C-1,2,3,4-TCDD

200324D1_10

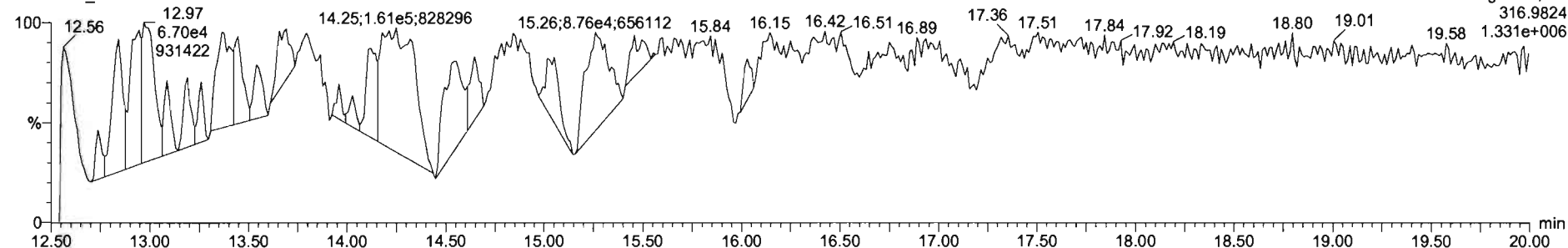


200324D1_10



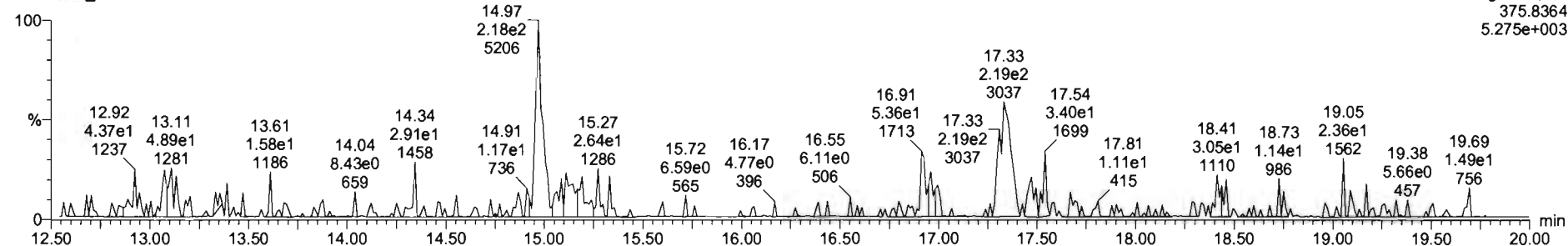
PFK1

200324D1_10



DPE1

200324D1_10



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200202R1-1

Reviewed By: C7 02/04/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Mass resolution \geq
 5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20% NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:
 (A) END. RES CHECK HAS ONE MASS BELOW 10K.

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/>
8280 CS1 End Standard: - Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox"/>	<input type="checkbox"/> NA

Dataset: U:\VG12.PRO\Results\200202R1\200202r1-1.qld

Last Altered: Monday, February 03, 2020 10:55:26 Pacific Standard Time
Printed: Monday, February 03, 2020 10:55:56 Pacific Standard Time

GRB 02/03/2020

CT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	ntf	Intf	PubInt	RT	RT Flag	Pred/RT	RRT	Qconc	UConc	SFD/Lim
1	1 2,3,7,8-TCDD	1.24e5	1.25e6	0.77	NO	0.988	25.74	25.72	NO	1.001	1.001	10.049	100	NO
2	2 1,2,3,7,8-PeCDD	4.50e5	9.79e5	0.63	NO	0.972	30.66	30.65	NO	1.001	1.001	47.249	94.5	NO
3	3 1,2,3,4,7,8-HxCDD	4.16e5	7.69e5	1.22	NO	1.07	34.00	34.00	NO	1.000	1.000	50.513	101	NO
4	4 1,2,3,6,7,8-HxCDD	4.21e5	9.58e5	1.23	NO	0.921	34.08	34.10	NO	1.000	1.001	47.769	95.5	NO
5	5 1,2,3,7,8,9-HxCDD	3.95e5	8.72e5	1.25	NO	0.918	34.41	34.38	NO	1.001	1.000	49.302	98.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.97e5	6.51e5	1.01	NO	0.923	37.92	37.92	NO	1.000	1.000	49.532	99.1	NO
7	7 OCDD	5.90e5	1.23e6	0.89	NO	0.975	40.91	40.92	NO	1.000	1.000	98.859	98.7	NO
8	8 2,3,7,8-TCDF	1.40e5	1.78e6	0.71	NO	0.802	24.85	24.84	NO	1.001	1.001	9.7761	97.8	NO
9	9 1,2,3,7,8-PeCDF	7.15e5	1.57e6	1.54	NO	0.907	29.38	29.37	NO	1.001	1.001	50.222	100	NO
10	10 2,3,4,7,8-PeCDF	7.09e5	1.48e6	1.54	NO	0.952	30.36	30.35	NO	1.001	1.001	50.354	101	NO
11	11 1,2,3,4,7,8-HxCDF	4.44e5	1.00e6	1.19	NO	0.862	33.11	33.13	NO	1.000	1.001	51.310	103	NO
12	12 1,2,3,6,7,8-HxCDF	5.02e5	1.15e6	1.16	NO	0.841	33.25	33.25	NO	1.000	1.000	52.069	104	NO
13	13 2,3,4,6,7,8-HxCDF	4.76e5	1.03e6	1.19	NO	0.898	33.85	33.83	NO	1.001	1.000	51.224	102	NO
14	14 1,2,3,7,8,9-HxCDF	3.80e5	8.78e5	1.19	NO	0.858	34.72	34.73	NO	1.000	1.000	50.481	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.22e5	7.40e5	0.97	NO	0.851	36.51	36.48	NO	1.001	1.000	51.175	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.63e5	5.25e5	0.96	NO	0.980	38.49	38.51	NO	1.000	1.001	51.096	102	NO
17	17 OCDF	5.86e5	1.44e6	0.87	NO	0.806	41.10	41.10	NO	1.000	1.000	100.80	101	NO
18	18 13C-2,3,7,8-TCDD	1.25e6	1.05e6	0.79	NO	1.20	25.71	25.70	NO	1.026	1.026	99.292	99.3	NO
19	19 13C-1,2,3,7,8-PeCDD	9.79e5	1.05e6	0.63	NO	0.967	30.45	30.64	NO	1.215	1.222	96.592	96.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.69e5	9.87e5	1.27	NO	0.874	33.98	33.99	NO	1.014	1.014	89.172	89.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.58e5	9.87e5	1.26	NO	1.05	34.08	34.08	NO	1.017	1.017	92.779	92.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.72e5	9.87e5	1.26	NO	0.974	34.38	34.37	NO	1.026	1.026	90.707	90.7	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.51e5	9.87e5	1.06	NO	0.747	37.93	37.91	NO	1.132	1.131	88.212	88.2	NO
24	24 13C-OCDD	1.23e6	9.87e5	0.87	NO	0.707	40.81	40.91	NO	1.218	1.221	176.14	88.1	NO
25	25 13C-2,3,7,8-TCDF	1.78e6	1.65e6	0.78	NO	1.07	24.89	24.82	NO	0.993	0.990	101.06	101	NO
26	26 13C-1,2,3,7,8-PeCDF	1.57e6	1.65e6	1.60	NO	1.00	29.22	29.35	NO	1.166	1.171	94.685	94.7	NO
27	27 13C-2,3,4,7,8-PeCDF	1.48e6	1.65e6	1.58	NO	0.962	30.17	30.33	NO	1.204	1.210	92.960	93.0	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.00e6	9.87e5	0.50	NO	1.05	33.11	33.11	NO	0.988	0.988	97.011	97.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.15e6	9.87e5	0.51	NO	1.19	33.21	33.24	NO	0.991	0.992	97.663	97.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.03e6	9.87e5	0.51	NO	1.07	33.81	33.82	NO	1.009	1.009	98.256	98.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.78e5	9.87e5	0.52	NO	0.922	34.71	34.72	NO	1.036	1.036	96.485	96.5	NO

Dataset: U:\VG12.PRO\Results\200202R1\200202r1-1.qld

Last Altered: Monday, February 03, 2020 10:55:26 Pacific Standard Time

Printed: Monday, February 03, 2020 10:55:56 Pacific Standard Time

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

Peak	Comp	Resp	IS Flag	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.40e5	9.87e5	0.44	NO	0.767	36.46	36.47	NO	1.088	1.088	97.695	97.7	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.25e5	9.87e5	0.43	NO	0.552	38.47	38.49	NO	1.148	1.149	96.260	96.3	NO
34	34 13C-OCDF	1.44e6	9.87e5	0.87	NO	0.789	41.05	41.10	NO	1.225	1.227	185.17	92.6	NO
35	35 37Cl-2,3,7,8-TCDD	1.23e5	1.05e6			1.18	25.74	25.72	NO	1.027	1.026	9.9905	99.9	NO
36	36 13C-1,2,3,4-TCDD	1.05e6	1.05e6	0.82	NO	1.00	25.08	25.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.65e6	1.65e6	0.79	NO	1.00	23.42	23.40	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	9.87e5	9.87e5	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	39 Total Tetra-Dioxins		1.25e6			0.988	24.62		NO	0.000		86.453		NO
40	40 Total Penta-Dioxins		9.79e5			0.972	29.96		NO	0.000		211.80		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		246.97		NO
42	42 Total Hepta-Dioxins		6.51e5			0.923	37.64		NO	0.000		134.93		NO
43	43 Total Tetra-Furans		1.78e6			0.802	23.61		NO	0.000		48.820		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		172.77		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		287.30		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		102.27		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:55 Pacific Standard Time

Printed: Monday, February 03, 2020 10:48:01 Pacific Standard Time

Method: U:\VG12.PROMethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.77
2	2 1,2,8,9-TCDD (Last)	26.68
3	3 1,2,4,7,9-PeCDD (First)	28.45
4	4 1,2,3,8,9-PeCDD (Last)	31.03
5	5 1,2,4,6,7,9-HxCDD (First)	32.52
6	6 1,2,3,7,8,9-HxCDD (Last)	34.38
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.87
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.92
9	9 1,3,6,8-TCDF (First)	19.66
10	10 1,2,8,9-TCDF (Last)	26.83
11	11 1,3,4,6,8-PeCDF (First)	26.78
12	12 1,2,3,8,9-PeCDF (Last)	31.28
13	13 1,2,3,4,6,8-HxCDF (First)	31.96
14	14 1,2,3,7,8,9-HxCDF (Last)	34.73
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.48
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.51

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:49:24 Pacific Standard Time

Printed: Monday, February 03, 2020 10:49:36 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200202R1_1	ST200202R1_1 1613 CS3 19L2305	02-Feb-20	10:22:59
2	200202R1_2	B0A0056-BS1 OPR 10	02-Feb-20	11:11:34
3	200202R1_3	SOLVENT BLANK	02-Feb-20	11:57:59
4	200202R1_4	B0A0056-BLK1 Method Blank 10	02-Feb-20	12:44:53
5	200202R1_5	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	02-Feb-20	13:31:53
6	200202R1_6	1903654-01 PDI-073SC-B-00-02-191013 15.31	02-Feb-20	14:18:55
7	200202R1_7	1903654-02 PDI-073SC-B-02-04-191013 15.72	02-Feb-20	15:05:54
8	200202R1_8	1903654-03 PDI-073SC-B-04-06-191013 12.66	02-Feb-20	15:52:51
9	200202R1_9	1903654-04 PDI-073SC-B-06-08-191013 15.45	02-Feb-20	16:39:50
10	200202R1_10	1903654-05 PDI-075SC-B-00-02-191013 20.19	02-Feb-20	17:26:51
11	200202R1_11	1903654-06 PDI-075SC-B-02-04-191013 17.76	02-Feb-20	18:13:46
12	200202R1_12	B0A0056-DUP1 Duplicate 16.6	02-Feb-20	19:00:52
13	200202R1_13	1903654-07 PDI-075SC-B-04-06-191013 16.7	02-Feb-20	19:47:53
14	200202R1_14	1903654-08 PDI-075SC-B-06-08-191013 16.33	02-Feb-20	20:34:53
15	200202R1_15	1903654-09 PDI-076SC-B-00-02-191013 18.3	02-Feb-20	21:21:52

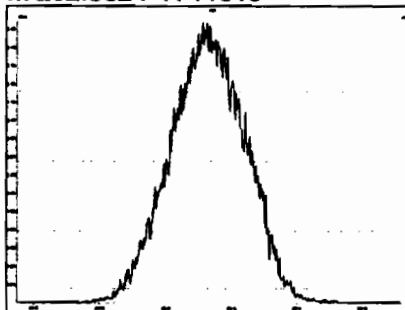
Experiment Calibration Report

MassLynx 4.1 SCN815

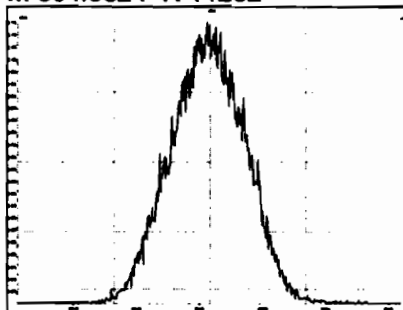
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:18:54 Pacific Standard Time

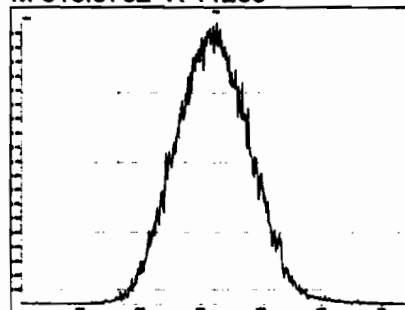
M 292.9824 R 11016



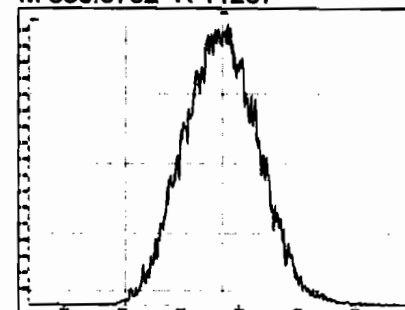
M 304.9824 R 11262



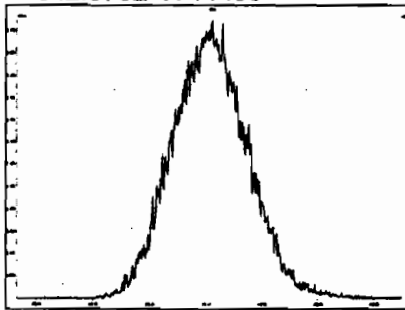
M 318.9792 R 11209



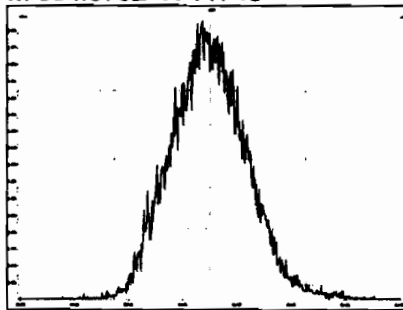
M 330.9792 R 11207



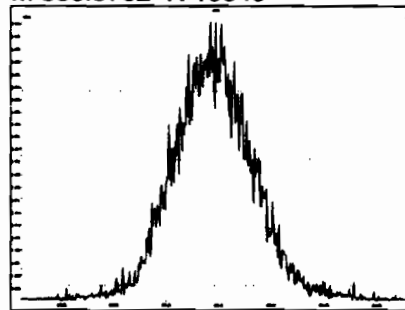
M 342.9792 R 11468



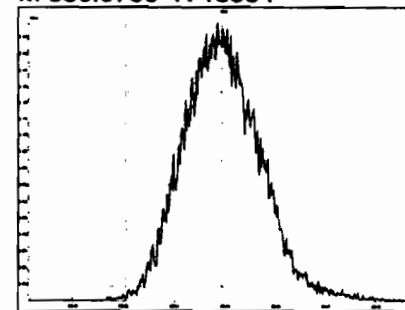
M 354.9792 R 11740



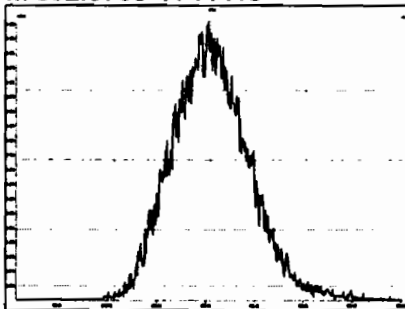
M 366.9792 R 10549



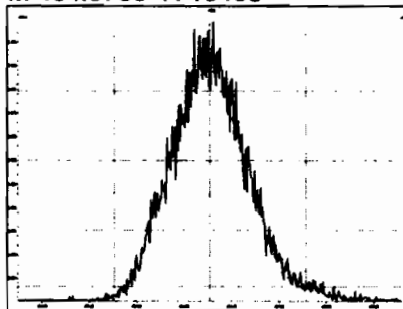
M 380.9760 R 10964



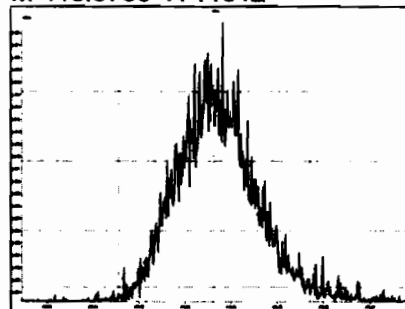
M 392.9760 R 11413



M 404.9760 R 10460



M 416.9760 R 11012



Experiment Calibration Report

MassLynx 4.1 SCN815

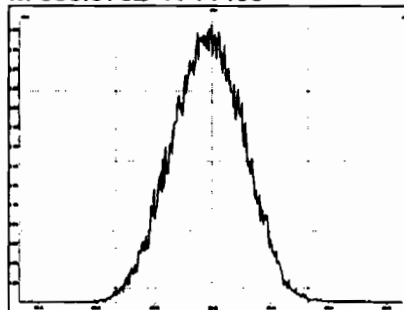
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:20:32 Pacific Standard Time

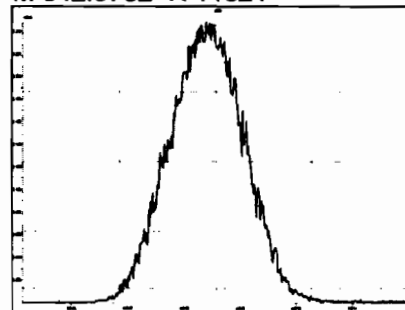
M 318.9792 R 11681



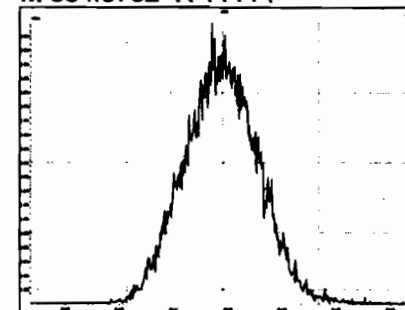
M 330.9792 R 11465



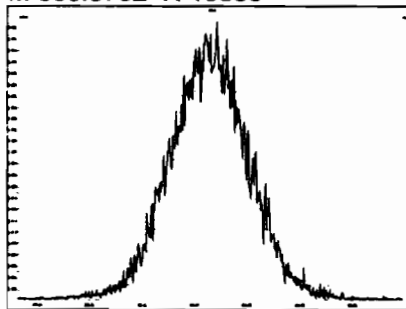
M 342.9792 R 11521



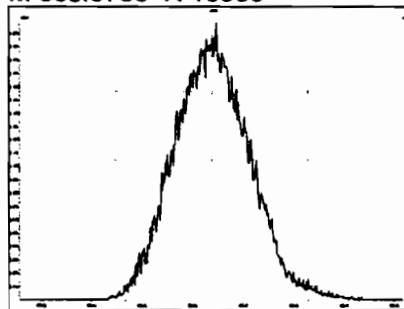
M 354.9792 R 11114



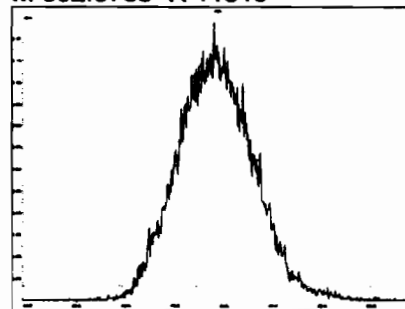
M 366.9792 R 10680



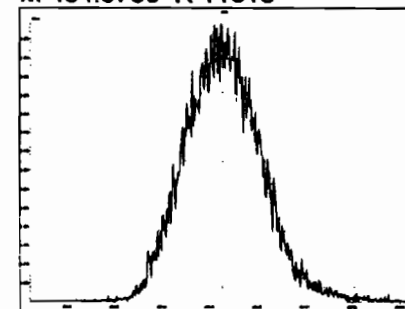
M 380.9760 R 10965



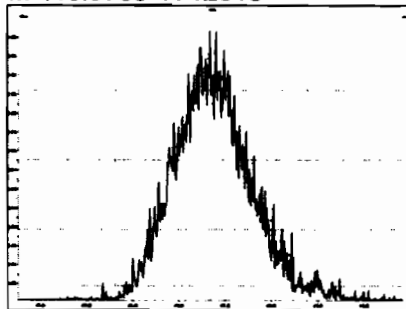
M 392.9760 R 11315



M 404.9760 R 11313



M 416.9760 R 12018



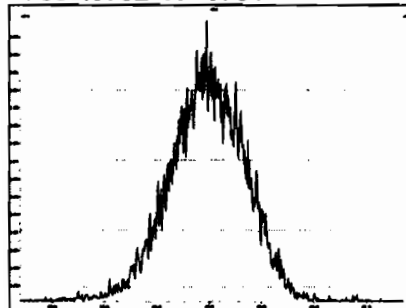
Experiment Calibration Report

MassLynx 4.1 SCN815

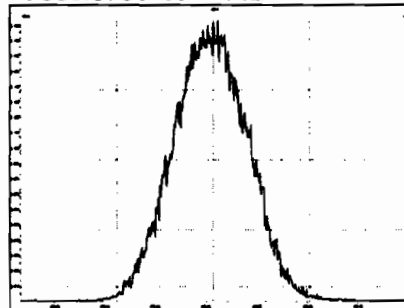
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:21:10 Pacific Standard Time

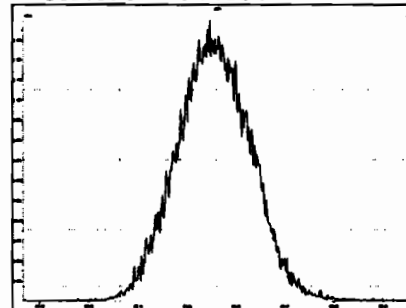
M 366.9792 R 10731



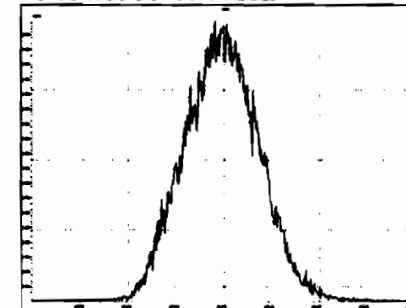
M 380.9760 R 11312



M 392.9760 R 11361



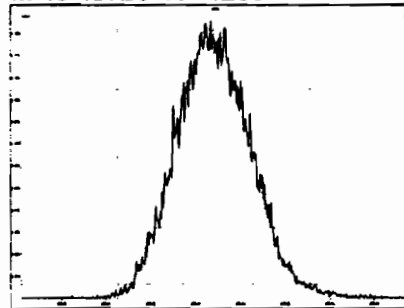
M 404.9760 R 11262



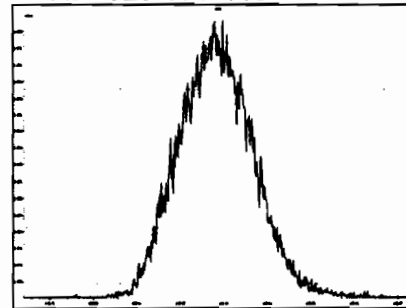
M 416.9760 R 11367



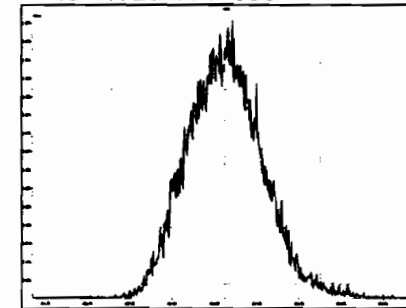
M 430.9728 R 11259



M 442.9728 R 11905



M 454.9728 R 10963



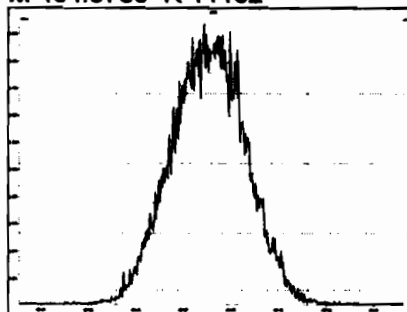
Experiment Calibration Report

MassLynx 4.1 SCN815

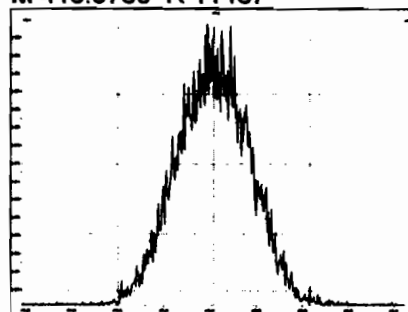
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:21:40 Pacific Standard Time

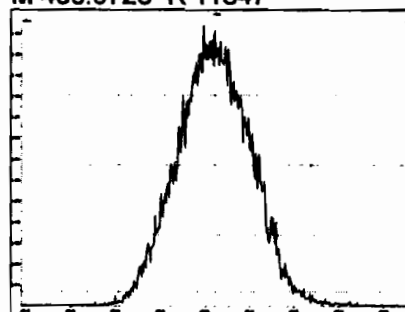
M 404.9760 R 11162



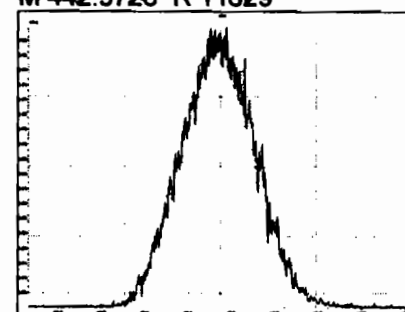
M 416.9760 R 11467



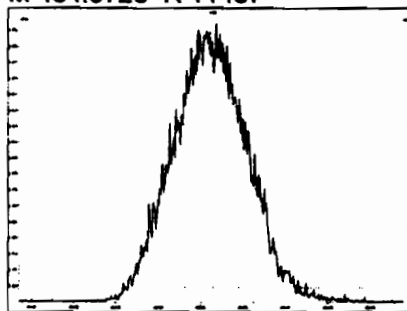
M 430.9728 R 11847



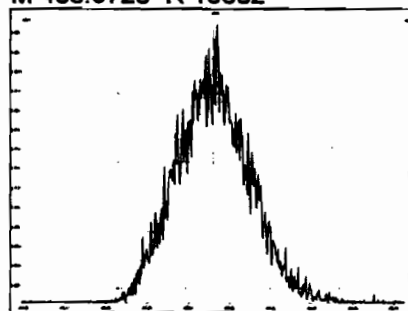
M 442.9728 R 11629



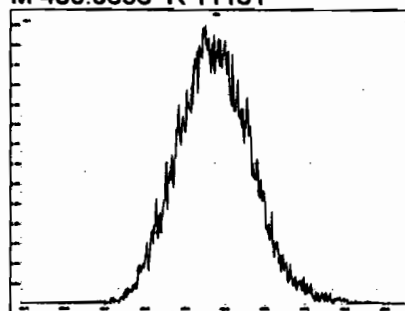
M 454.9728 R 11467



M 466.9728 R 10682



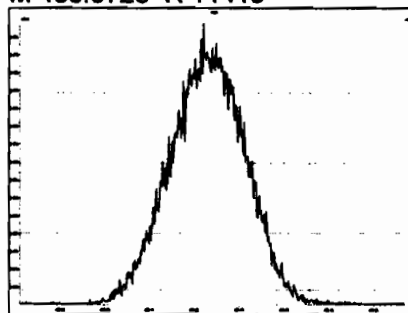
M 480.9696 R 11161



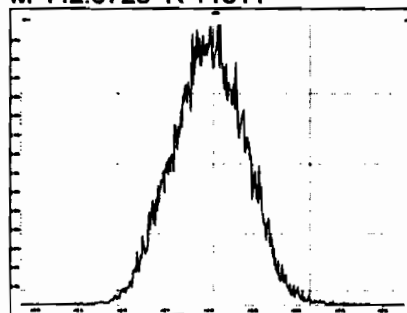
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:22:13 Pacific Standard Time

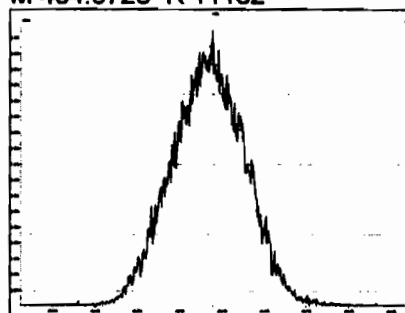
M 430.9728 R 11415



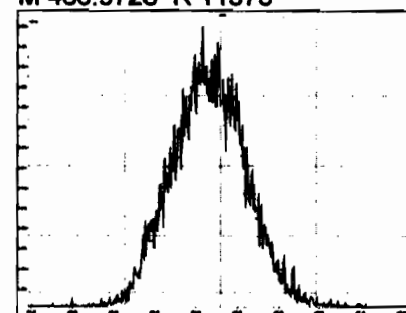
M 442.9728 R 11311



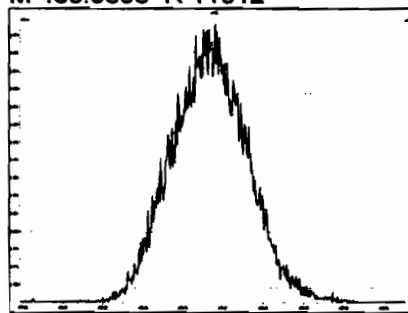
M 454.9728 R 11162



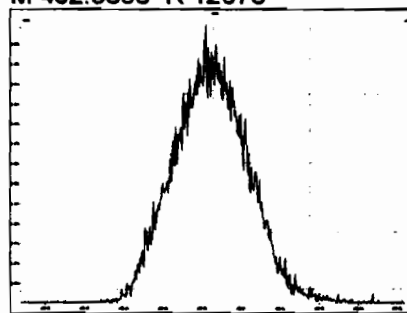
M 466.9728 R 11573



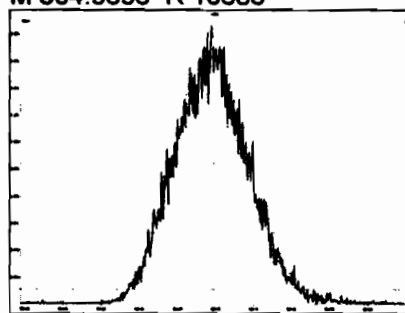
M 480.9696 R 11012



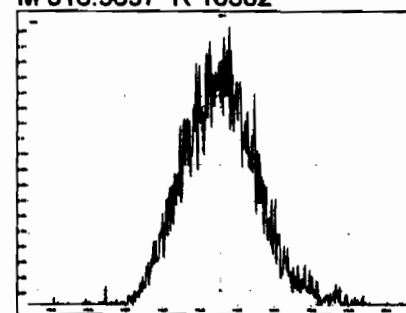
M 492.9696 R 12078



M 504.9696 R 10683



M 516.9697 R 10502



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:55 Pacific Standard Time
Printed: Monday, February 03, 2020 10:48:01 Pacific Standard Time

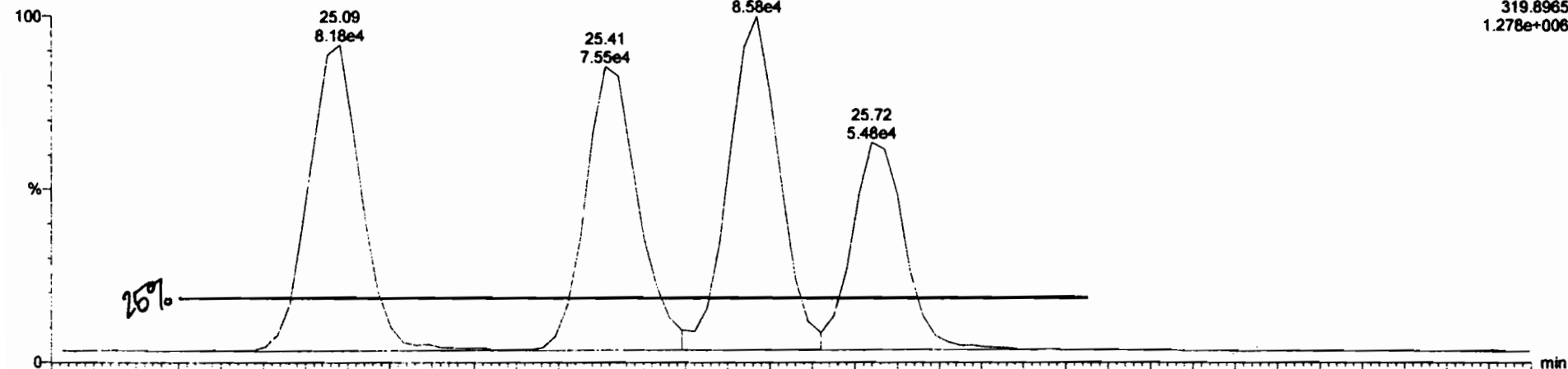
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200202R1_1

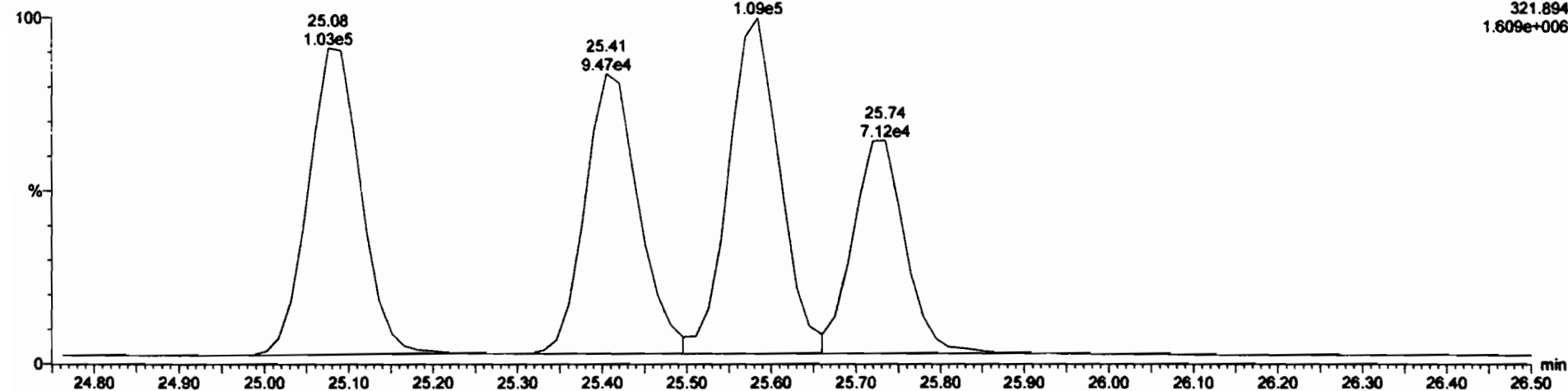
GPB 02/03/2020

F1:Voltage SIR, EI+
319.8965
1.278e+006



200202R1_1

F1:Voltage SIR, EI+
321.894
1.609e+006



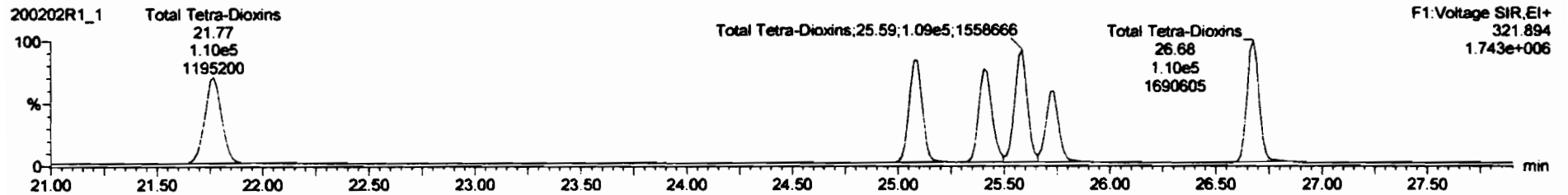
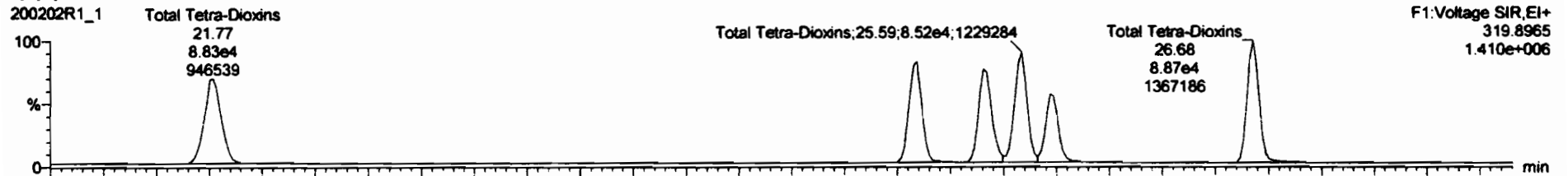
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

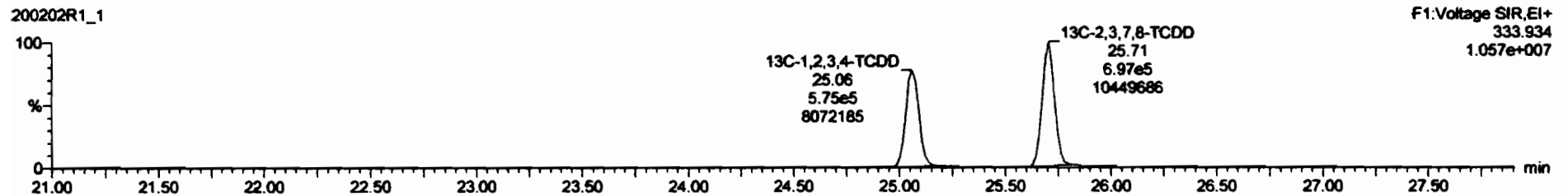
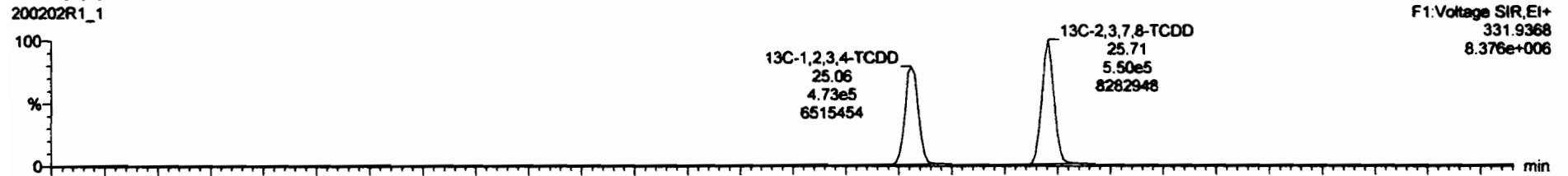
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



¹³C-2,3,7,8-TCDD



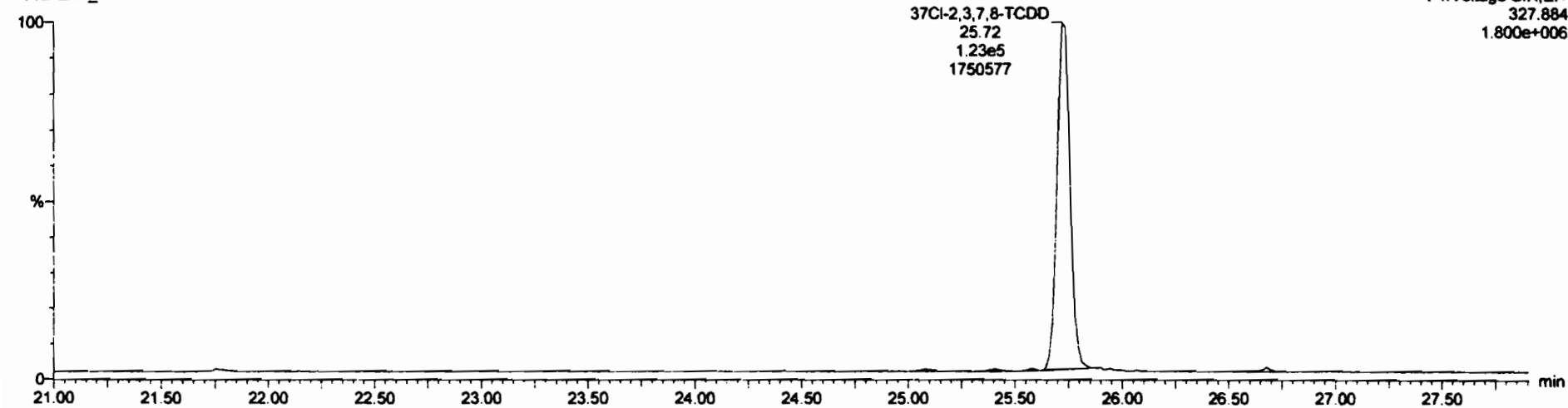
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

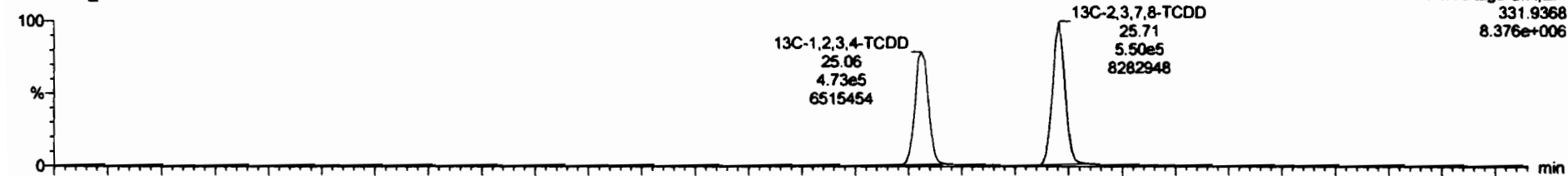
37Cl-2,3,7,8-TCDD

200202R1_1

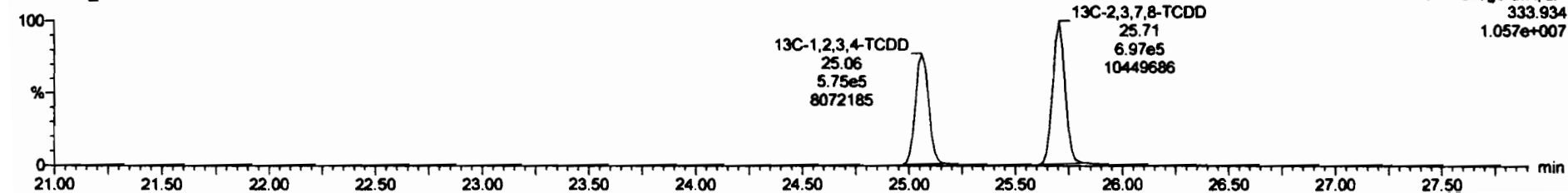


13C-1,2,3,4-TCDD

200202R1_1



200202R1_1



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time

Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

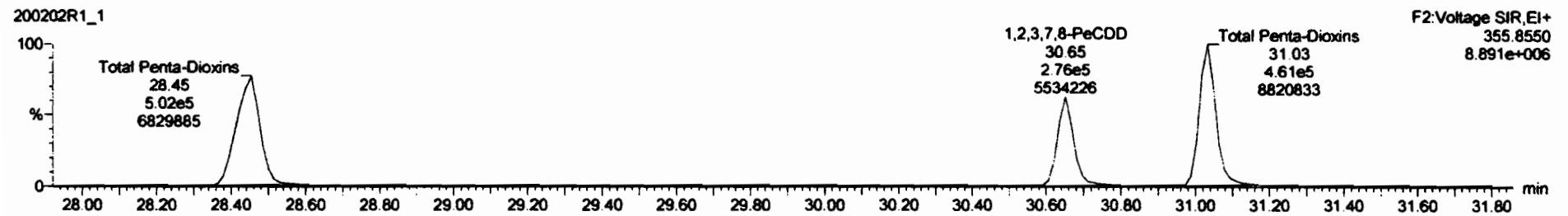
Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200202R1_1



200202R1_1

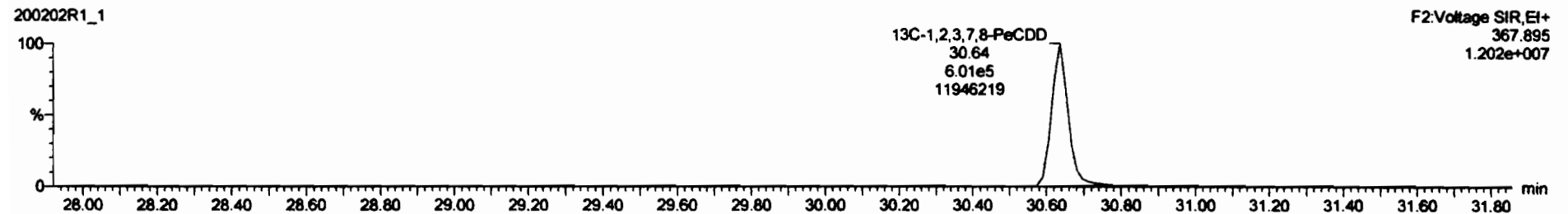


13C-1,2,3,7,8-PeCDD

200202R1_1



200202R1_1



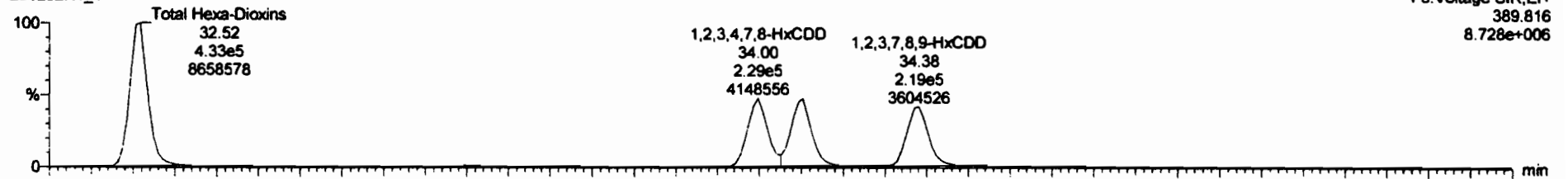
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Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

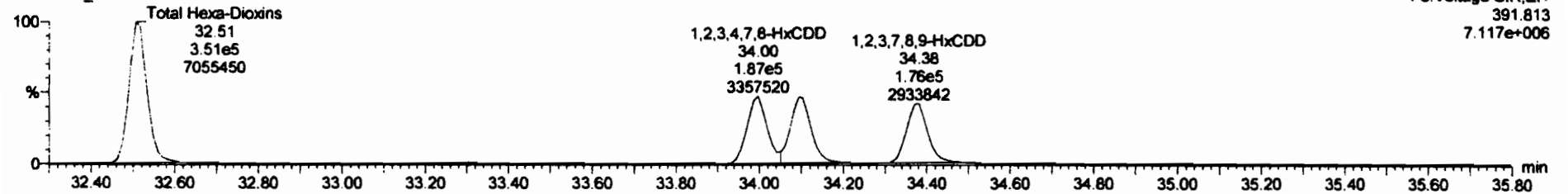
Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,4,7,8-HxCDD

200202R1_1

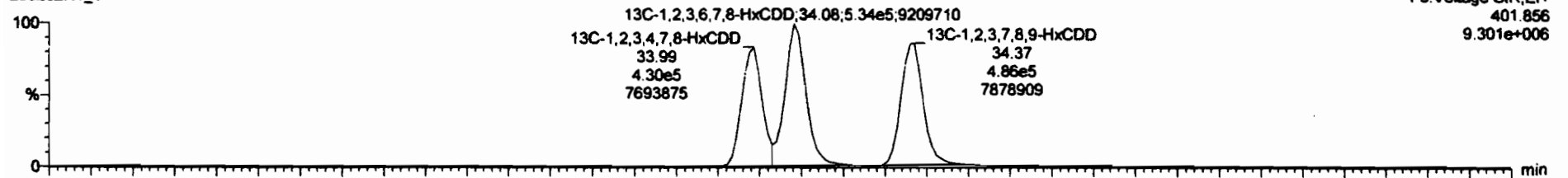


200202R1_1

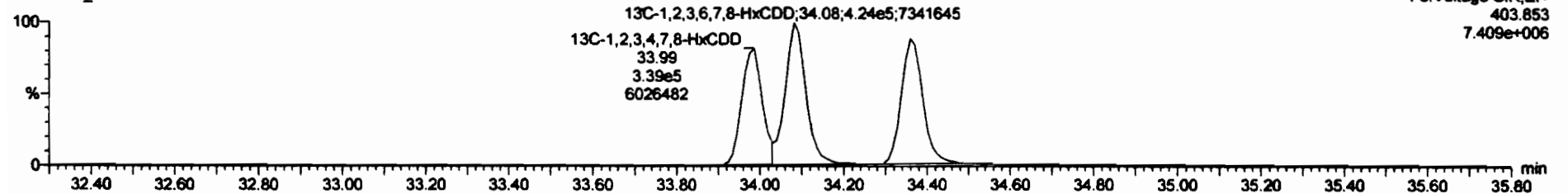


13C-1,2,3,4,7,8-HxCDD

200202R1_1



200202R1_1



Dataset: Untitled

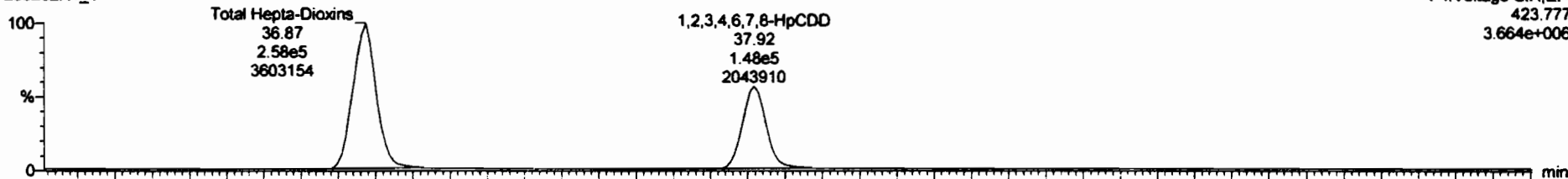
Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time

Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

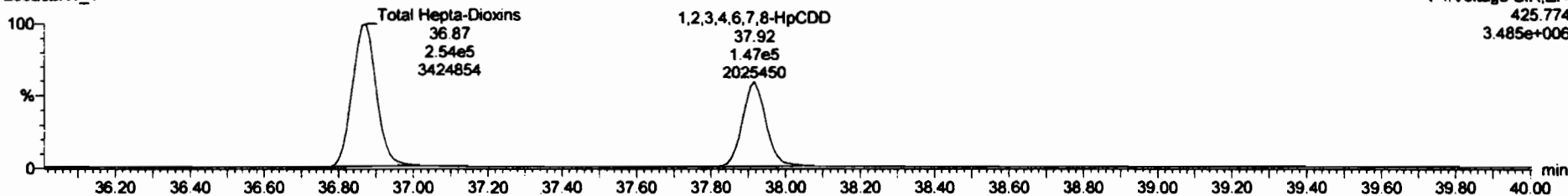
Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,4,6,7,8-HpCDD

200202R1_1

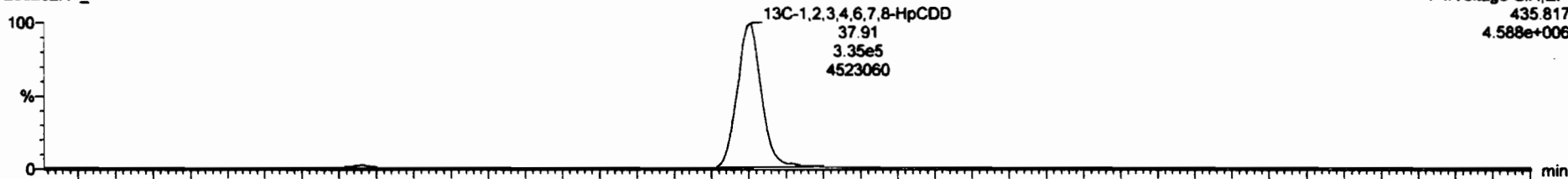


200202R1_1

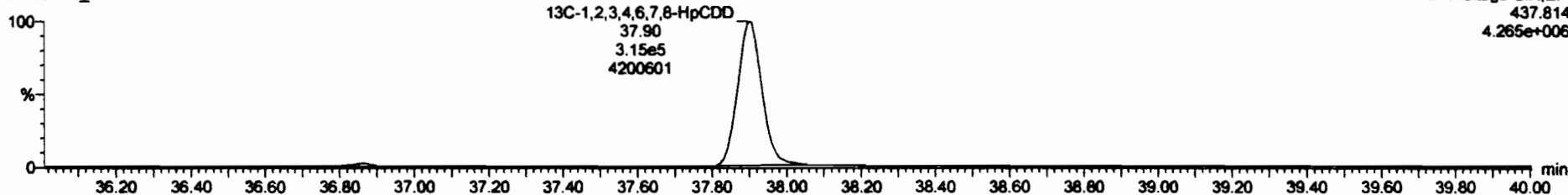


13C-1,2,3,4,6,7,8-HpCDD

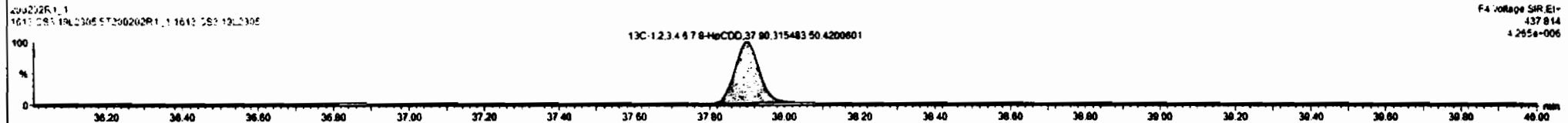
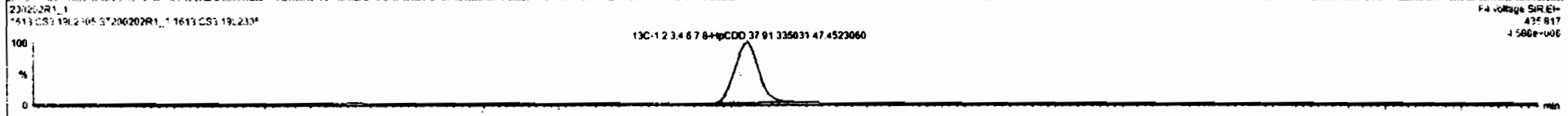
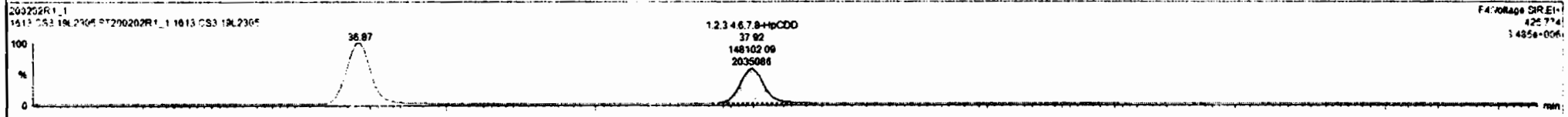
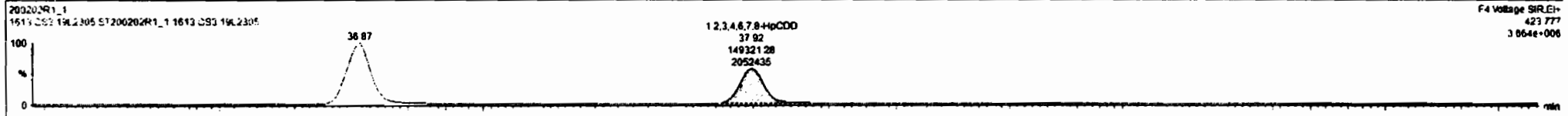
200202R1_1



200202R1_1



#	Peak	Area	Height	W	Ret	Ident	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
1	2,3,7,8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.9881	25.74	25.72	NO	1.001	1.001	19.0	180	NO				
2	1,2,3,7,8-PeCDD	4.50e5	9.78e5	0.83	0.83	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.2	84.5	NO				
3	1,2,3,4,7,8-HxCDD	4.18e5	7.89e5	1.24	1.22	NO	1.0708	34.08	34.80	NO	1.000	1.000	50.5	101	NO				
4	1,2,3,6,7,8-HxCDD	4.21e5	9.58e5	1.24	1.23	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.8	95.5	NO				
5	1,2,3,7,8-HxCDD	3.95e5	8.72e5	1.24	1.25	NO	0.9182	34.41	34.38	NO	1.001	1.000	48.3	98.8	NO				
6																			
7	OCDD	6.11e5	1.26e5	0.89	0.88	NO	0.9748	48.51	48.82	NO	1.000	1.000	99.7	98.7	NO				
8	2,3,7,8-TCDF	1.40e5	1.78e5	0.77	0.71	NO	0.9828	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO				
9	1,2,3,7,8-PeCDF	7.15e5	1.57e5	1.55	1.54	NO	0.9974	29.38	29.37	NO	1.001	1.001	58.2	180	NO				
10	2,3,4,7,8-PeCDF	7.08e5	1.48e5	1.59	1.54	NO	0.9518	30.38	30.35	NO	1.001	1.001	58.4	181	NO				
11	1,2,3,4,7,8-HxCDF	4.44e5	1.00e5	1.24	1.19	NO	0.9823	33.11	33.13	NO	1.000	1.001	51.3	183	NO				
12	1,2,3,6,7,8-HxCDF	5.82e5	1.15e5	1.24	1.18	NO	0.9414	33.25	33.25	NO	1.000	1.000	52.1	194	NO				
13	2,3,4,6,7,8-HxCDF	4.78e5	1.03e5	1.24	1.19	NO	0.9882	33.85	33.85	NO	1.001	1.000	51.2	182	NO				
14	1,2,3,7,8,9-HxCDF	3.80e5	8.76e5	1.24	1.19	NO	0.9578	34.72	34.73	NO	1.000	1.000	50.5	191	NO				
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.46e5	1.04	0.97	NO	0.9511	38.51	38.48	NO	1.001	1.000	51.2	182	NO				
16	1,2,3,4,7,8,9-HpCDF	2.84e5	5.34e5	1.04	0.95	NO	0.9798	38.48	38.51	NO	1.000	1.001	50.4	181	NO				
17	OCDF	5.88e5	1.44e5	0.89	0.87	NO	0.9885	41.18	41.10	NO	1.000	1.000	101	181	NO				



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Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

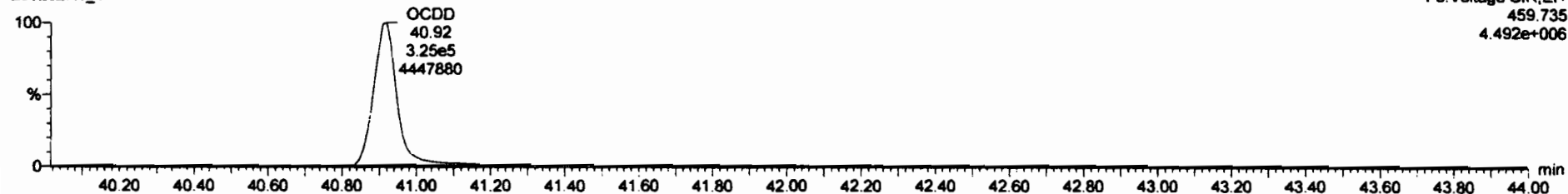
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OCDD

200202R1_1



200202R1_1

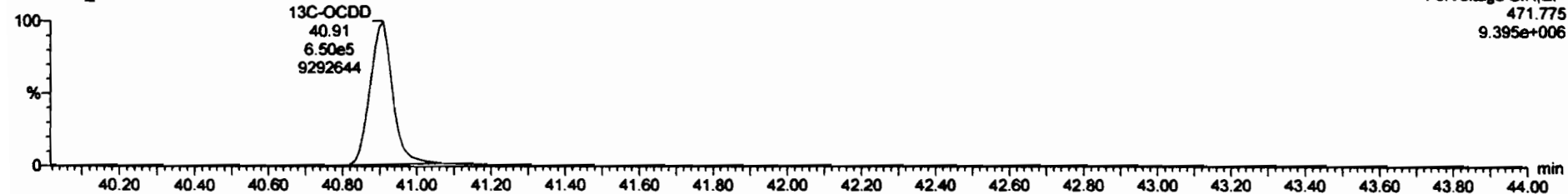


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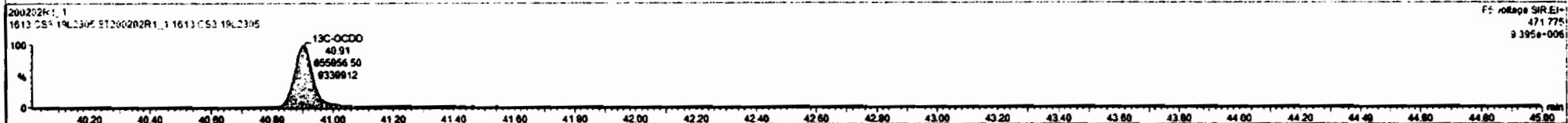
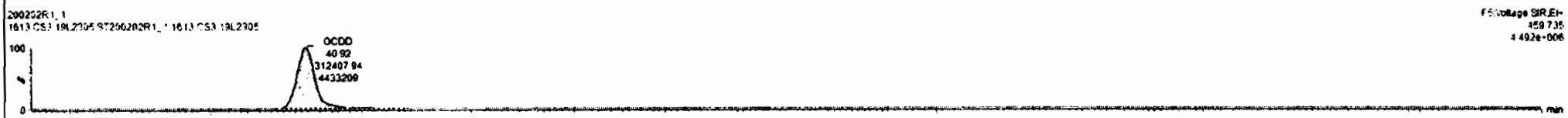
200202R1_1



200202R1_1



Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height		
1	2.3.7.8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.9081	25.74	25.72	NO	1.001	1.001	10.0	100	NO								
2	1.2.3.7.8-PeCDD	4.30e5	9.70e5	0.63	0.63	NO	0.9723	30.48	30.85	NO	1.001	1.001	47.2	94.5	NO								
3	1.2.3.4.7.8-HxCDD	4.18e5	7.88e5	1.24	1.22	NO	1.0708	34.00	34.00	NO	1.000	1.000	50.5	101	NO								
4	1.2.3.6.7.8-HxCDD	4.21e5	8.88e5	1.24	1.23	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.8	95.5	NO								
5	1.2.3.7.8.9-HxCDD	3.96e5	8.72e5	1.24	1.25	NO	0.9182	34.41	34.36	NO	1.001	1.000	48.3	96.6	NO								
6	1.2.3.4.6.7.8-HxCDD	2.97e5	6.51e5	1.04	1.01	NO	0.9231	37.92	37.92	NO	1.000	1.000	49.5	99.1	NO								
8	2.3.7.8-TCDF	1.40e5	1.70e5	0.77	0.71	NO	0.9020	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO								
9	1.2.3.7.8-PeCDF	7.15e5	1.57e6	1.55	1.54	NO	0.9874	29.38	29.37	NO	1.001	1.001	58.2	108	NO								
10	2.3.4.7.8-PeCDF	7.08e5	1.48e6	1.56	1.54	NO	0.9518	30.38	30.35	NO	1.001	1.001	50.4	101	NO								
11	1.2.3.4.7.8-HxCDF	4.44e5	1.80e6	1.24	1.19	NO	0.9823	33.71	33.13	NO	1.000	1.001	51.3	103	NO								
12	1.2.3.6.7.8-HxCDF	5.82e5	1.75e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.1	104	NO								
13	2.3.4.6.7.8-HxCDF	4.78e5	1.03e6	1.24	1.19	NO	0.9882	33.85	33.85	NO	1.001	1.000	51.2	102	NO								
14	1.2.3.7.8.9-HxCDF	3.88e5	8.78e5	1.24	1.19	NO	0.9578	34.72	34.73	NO	1.000	1.000	50.5	101	NO								
15	1.2.3.4.6.7.8-HxCDF	3.22e5	7.40e5	1.04	0.97	NO	0.9511	36.51	36.48	NO	1.001	1.000	51.2	102	NO								
16	1.2.3.4.7.8.9-HxCDF	2.84e5	5.34e5	1.04	0.95	NO	0.9798	38.48	38.51	NO	1.000	1.001	50.4	101	NO								
17	OCDF	5.88e5	1.44e6	0.88	0.87	NO	0.9055	41.10	41.10	NO	1.000	1.000	101	101	NO								

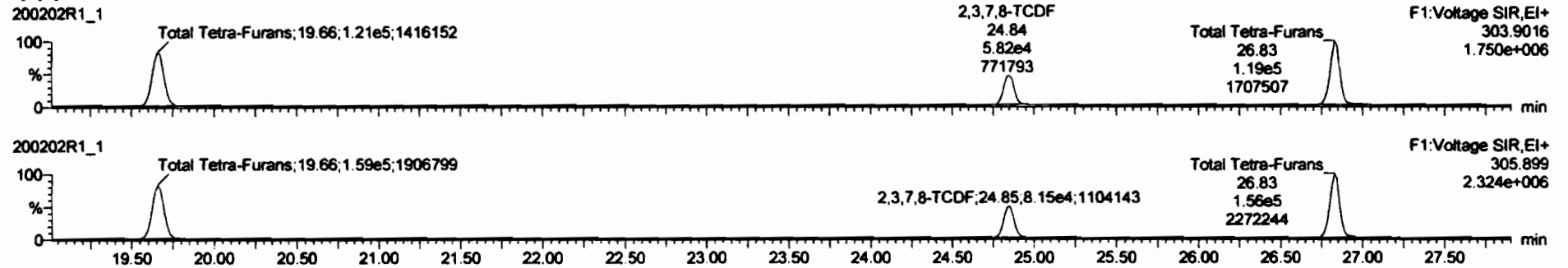


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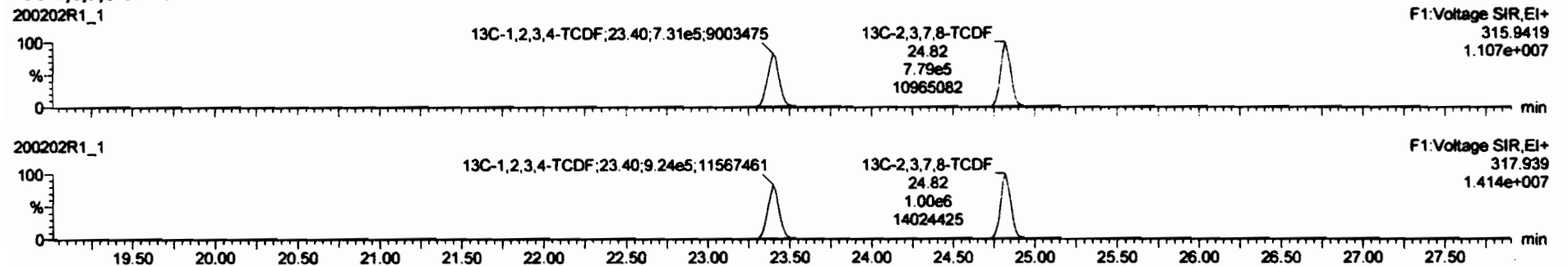
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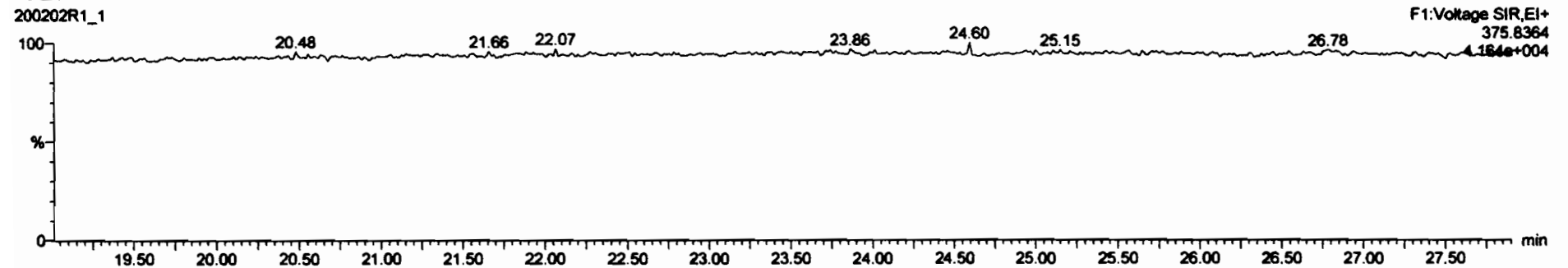
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



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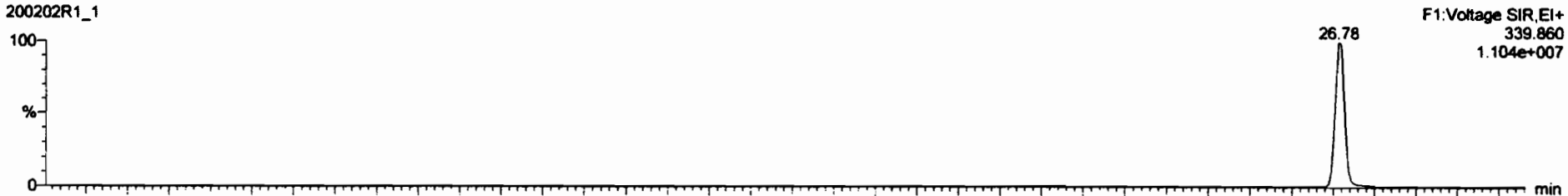
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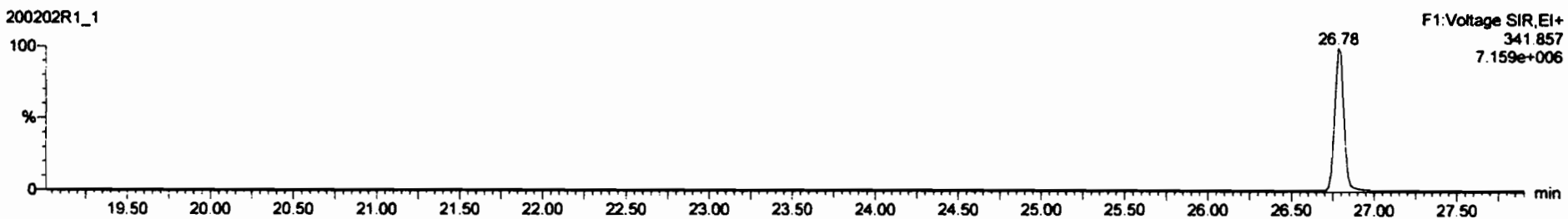
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200202R1_1

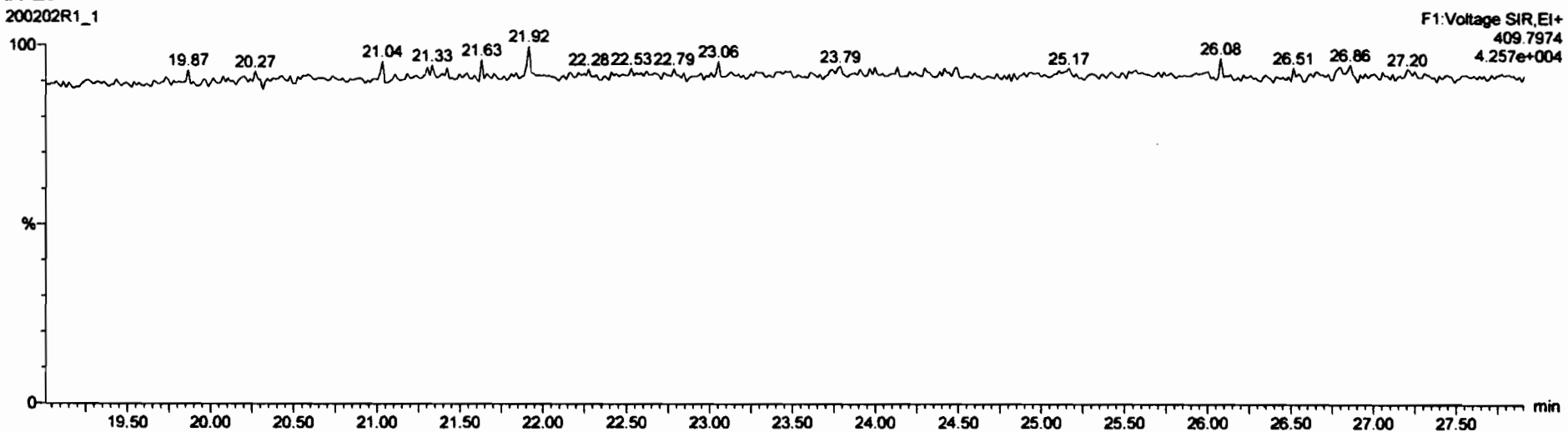


200202R1_1



DPE6

200202R1_1



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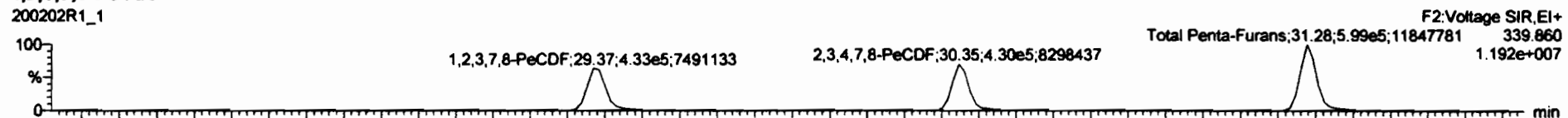
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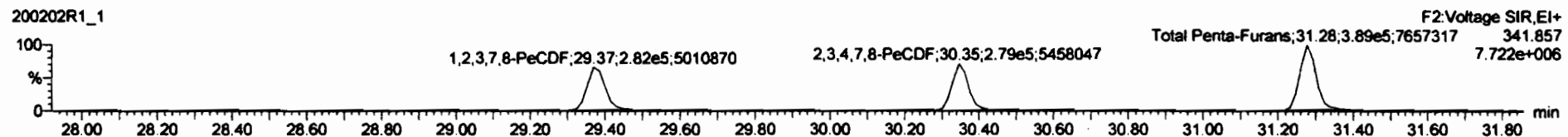
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1,2,3,7,8-PeCDF

200202R1_1

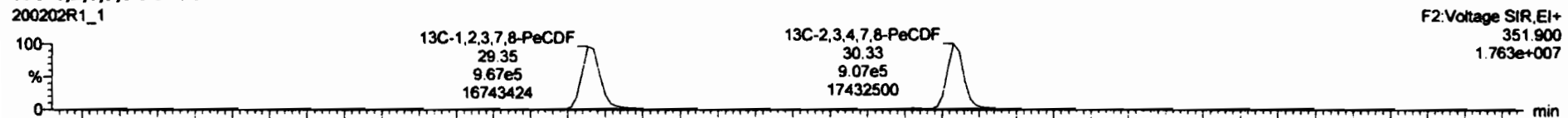


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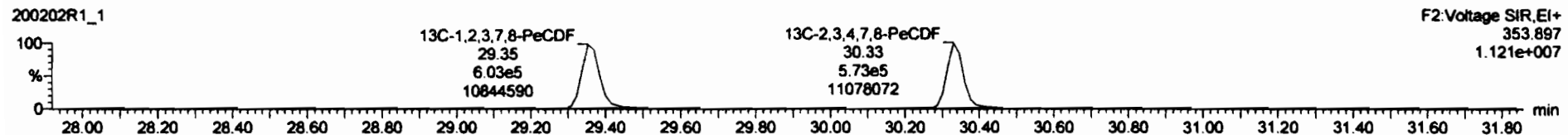


13C-1,2,3,7,8-PeCDF

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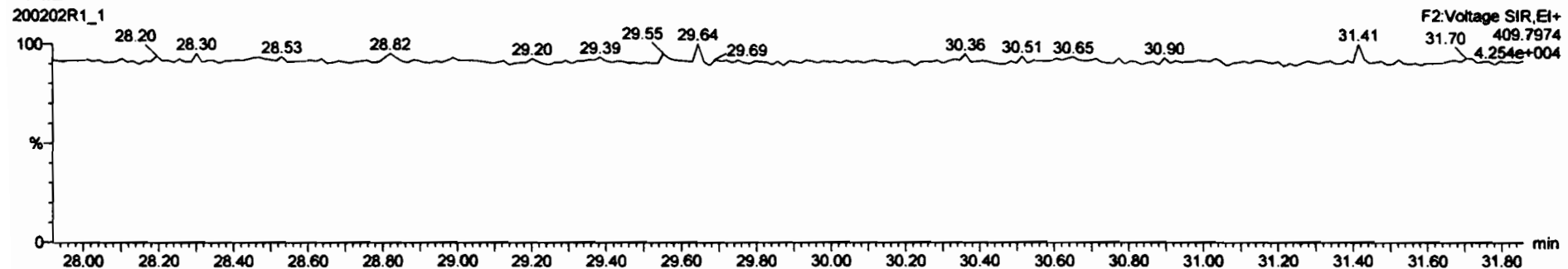


200202R1_1



DPE2

200202R1_1



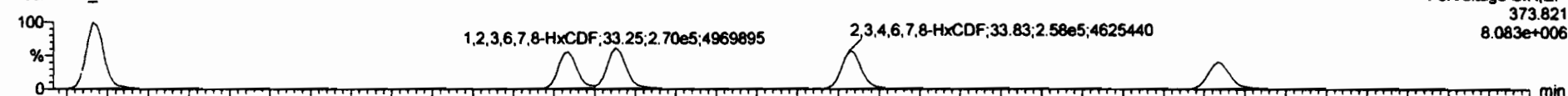
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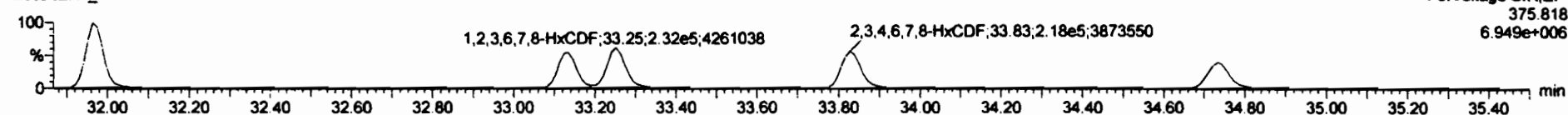
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1,2,3,4,7,8-HxCDF

200202R1_1

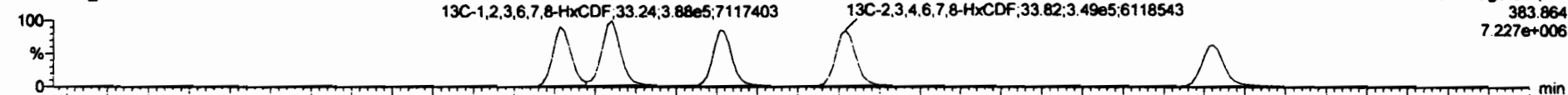


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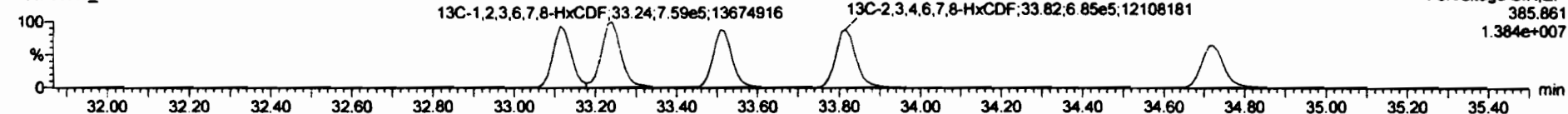


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200202R1_1

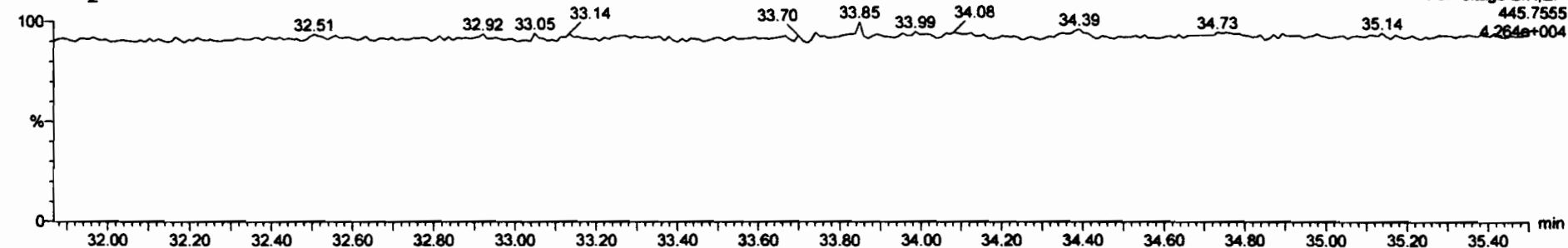


200202R1_1



DPE3

200202R1_1

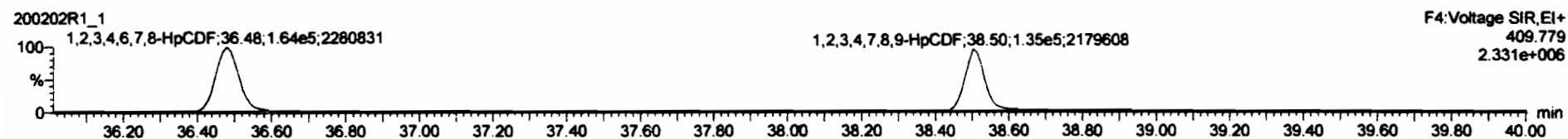
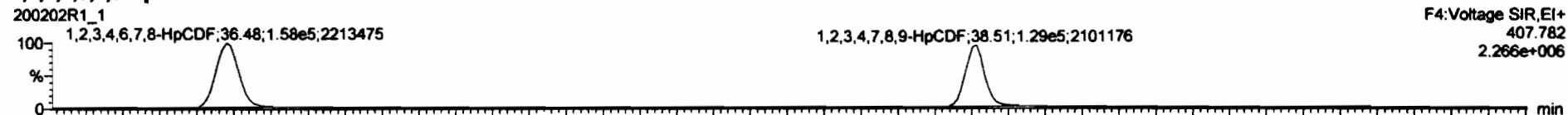


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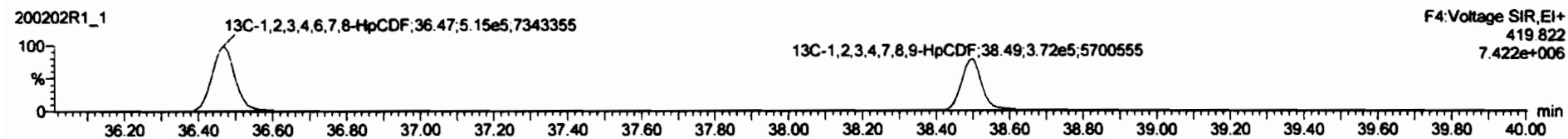
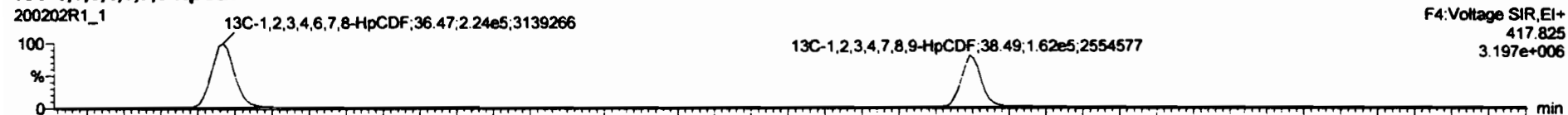
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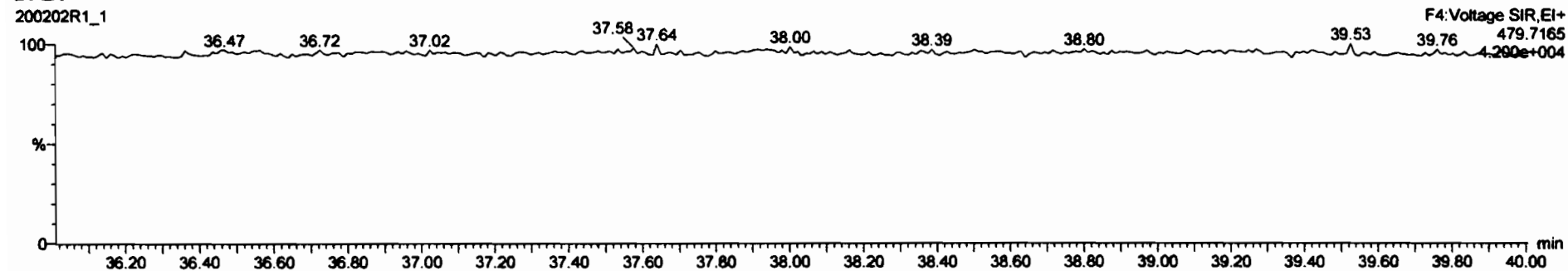
1,2,3,4,6,7,8-HpCDF



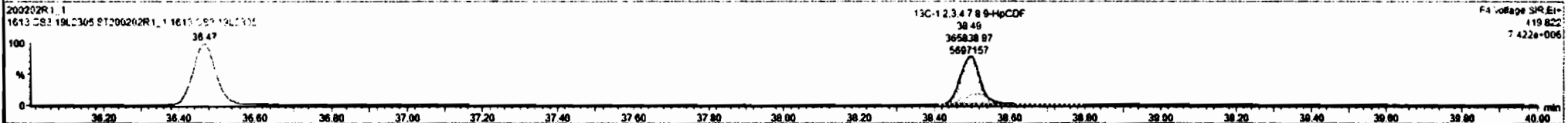
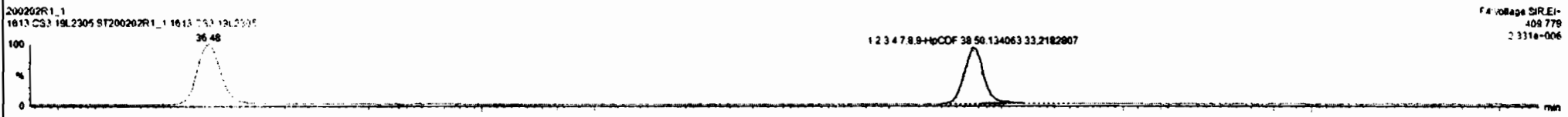
13C-1,2,3,4,6,7,8-HpCDF



DPE4



Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	1.2,3,7,8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.0881	25.74	25.72	NO	1.001	1.001	10.0	100	NO		
2	1,2,3,7,8-PeCDD	4.50e5	9.78e5	0.83	0.83	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.2	94.5	NO		
3	1,2,3,4,7,8-HxCDD	4.16e5	7.88e5	1.24	1.22	NO	1.0788	34.08	34.00	NO	1.000	1.000	56.5	101	NO		
4	1,2,3,6,7,8-HxCDD	4.21e5	9.58e5	1.24	1.23	NO	0.8291	34.98	34.10	NO	1.000	1.001	47.8	95.5	NO		
5	1,2,3,7,8,9-HxCDD	3.95e5	8.72e5	1.24	1.25	NO	0.9182	34.41	34.38	NO	1.001	1.000	49.3	96.6	NO		
6	1,2,3,4,6,7,8-HpCDD	2.97e5	6.51e5	1.04	1.01	NO	0.8231	37.82	37.82	NO	1.005	1.000	49.5	99.1	NO		
7	OCDD	5.00e5	1.23e6	0.89	0.89	NO	0.8748	40.91	40.82	NO	1.000	1.000	96.7	98.7	NO		
8	2,3,7,8-TCDF	1.40e5	1.78e5	0.77	0.71	NO	0.8020	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO		
9	1,2,3,7,8-PeCDF	7.15e5	1.57e6	1.55	1.54	NO	0.9074	29.38	29.37	NO	1.001	1.001	56.2	100	NO		
10	2,3,4,7,8-PeCDF	7.08e5	1.48e6	1.55	1.54	NO	0.8516	30.38	30.35	NO	1.001	1.001	58.4	101	NO		
11	1,2,3,4,7,8-HxCDF	4.44e5	1.00e6	1.24	1.19	NO	0.8823	33.11	33.13	NO	1.000	1.001	51.3	103	NO		
12	1,2,3,6,7,8-HxCDF	5.02e5	1.15e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.1	104	NO		
13	2,3,4,6,7,8-HxCDF	4.78e5	1.03e6	1.24	1.19	NO	0.8982	33.85	33.83	NO	1.001	1.000	51.2	102	NO		
14	1,2,3,7,8,9-HxCDF	3.80e5	8.78e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.5	101	NO		
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.40e5	1.04	0.97	NO	0.8511	38.51	38.48	NO	1.001	1.000	51.2	102	NO		
17	OCDF	5.89e5	1.44e6	0.89	0.87	NO	0.8065	41.16	41.10	NO	1.000	1.000	101	101	NO		



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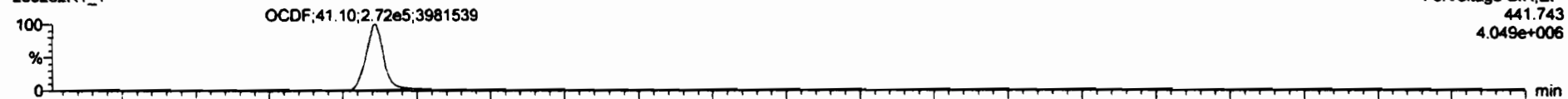
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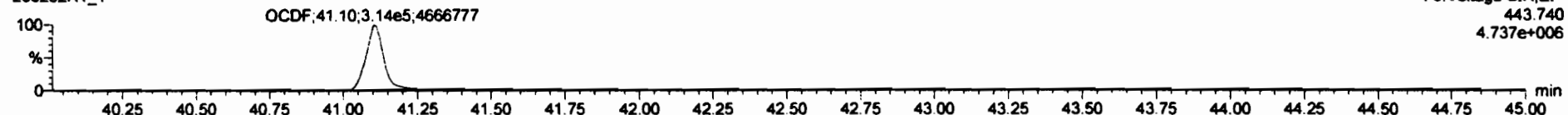
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OCDF

200202R1_1

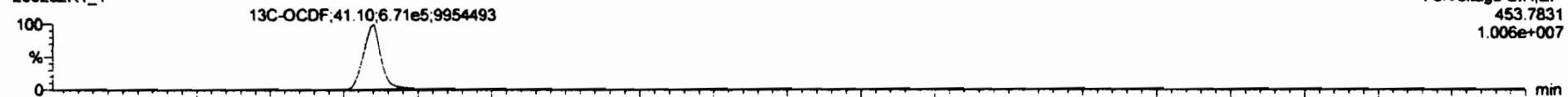


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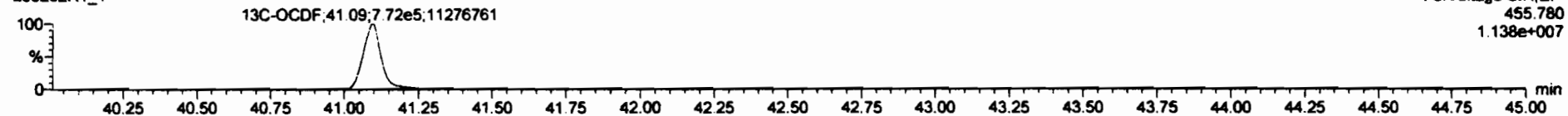


13C-OCDF

200202R1_1

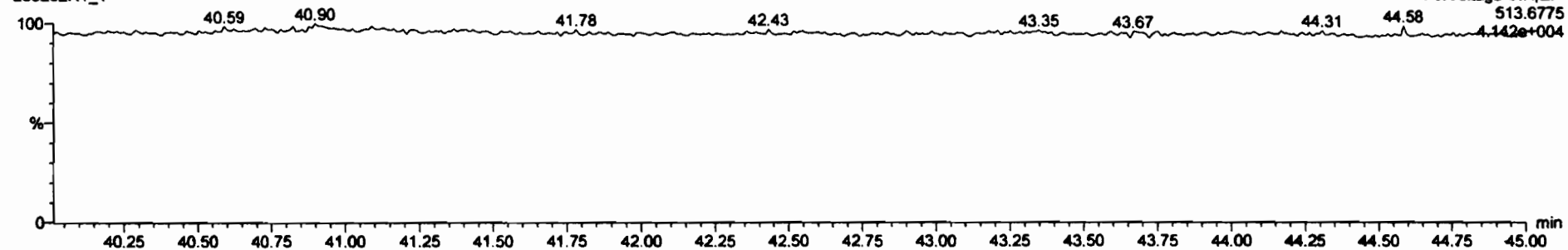


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DPE5

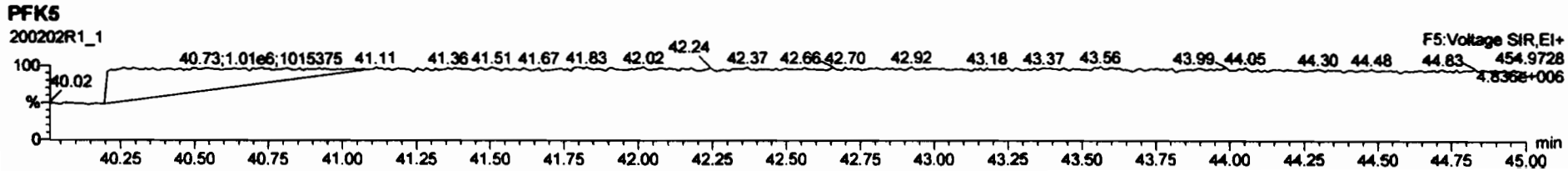
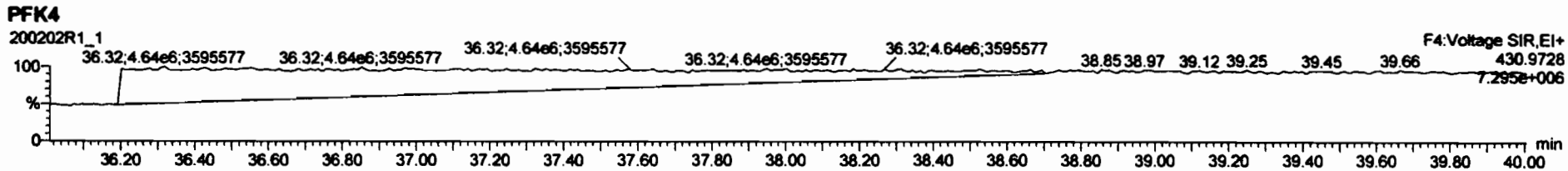
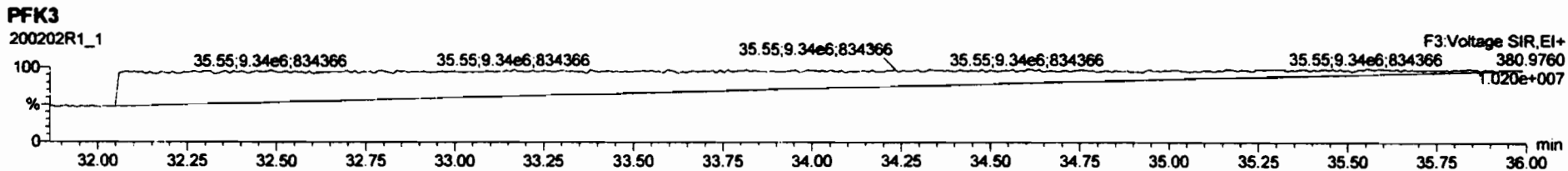
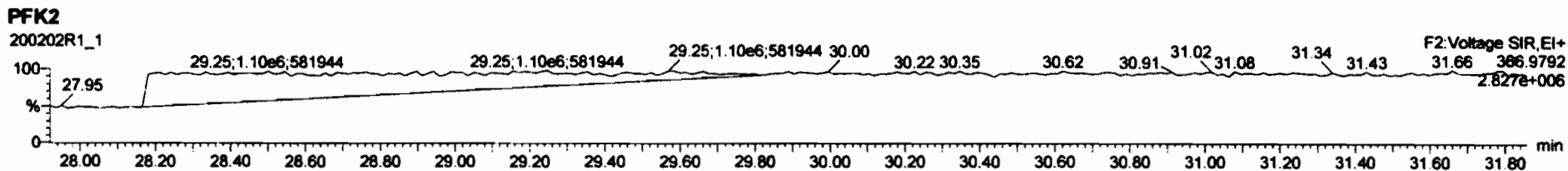
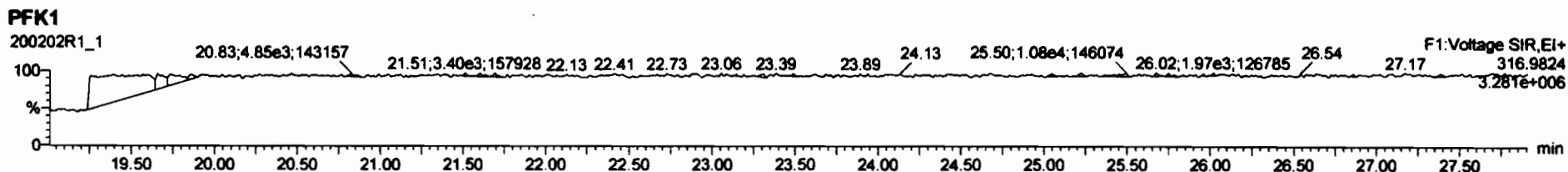
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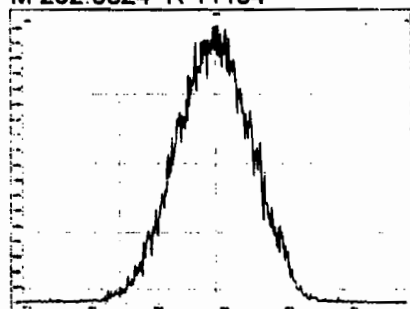


Resolution Check Report

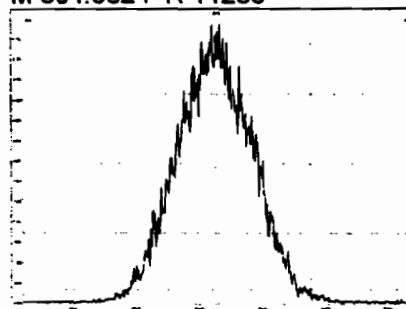
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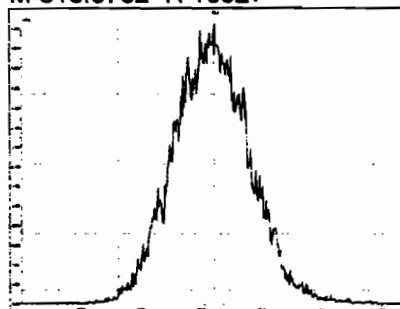
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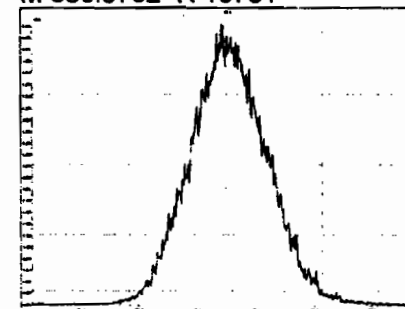
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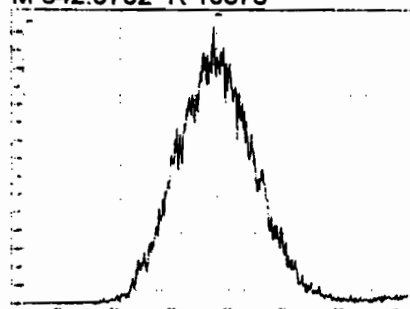
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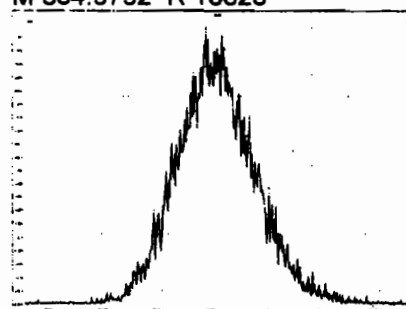
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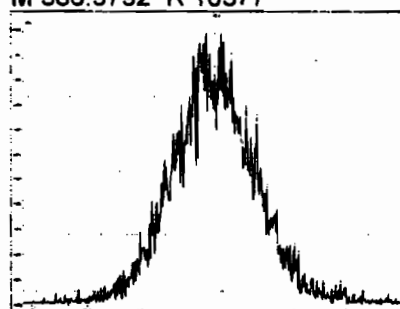
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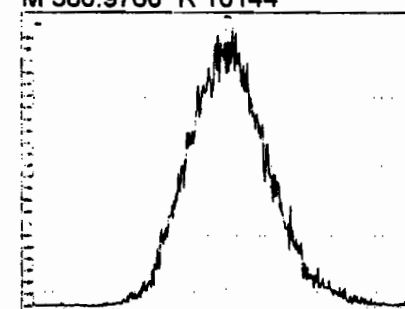
M 354.9792 R 10825



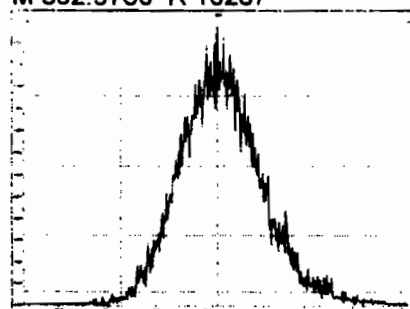
M 366.9792 R 10377



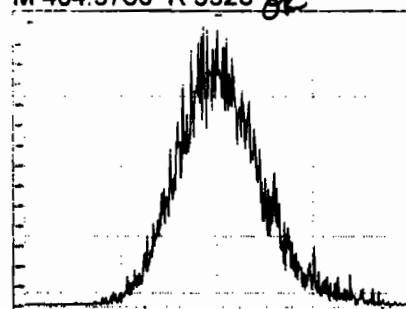
M 380.9760 R 10144



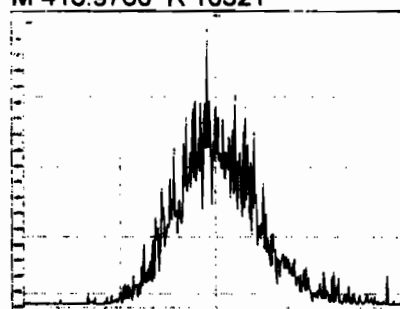
M 392.9760 R 10287



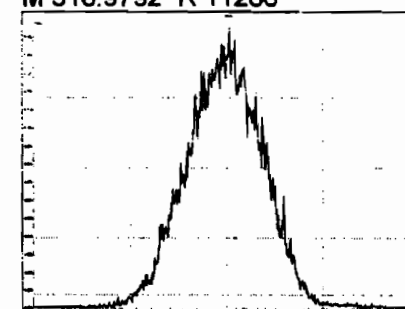
M 404.9760 R 9925 *ok*



M 416.9760 R 10321



M 318.9792 R 11266

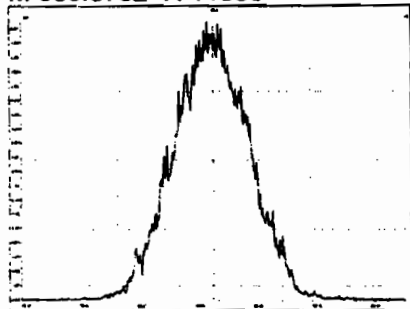


Resolution Check Report

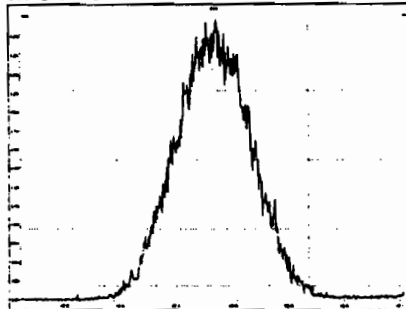
MassLynx 4.1 SCN815

Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

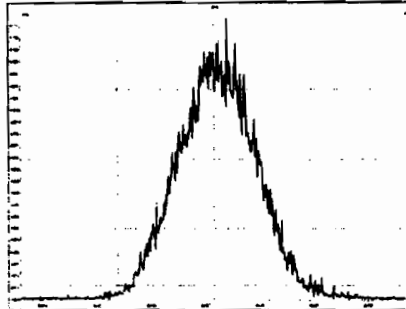
M 330.9792 R 11365



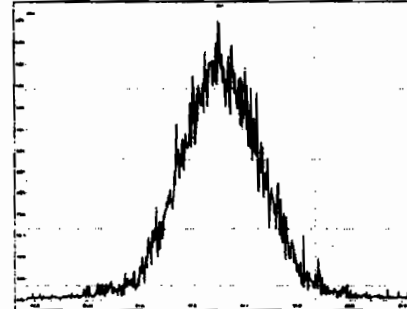
M 342.9792 R 11121



M 354.9792 R 10731



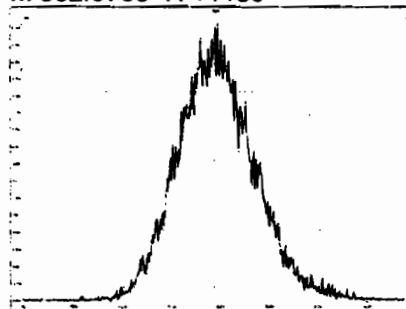
M 366.9792 R 10978



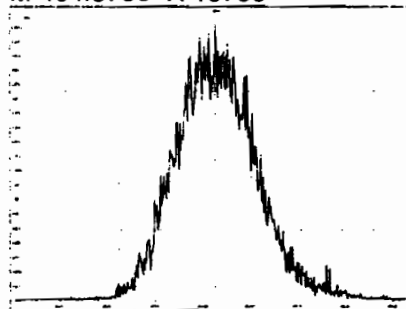
M 380.9760 R 10653



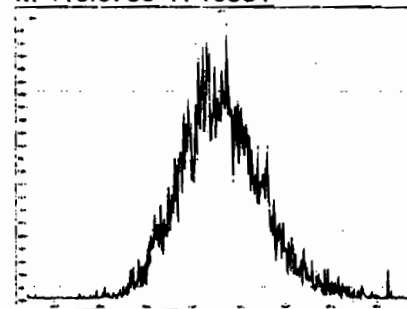
M 392.9760 R 11135



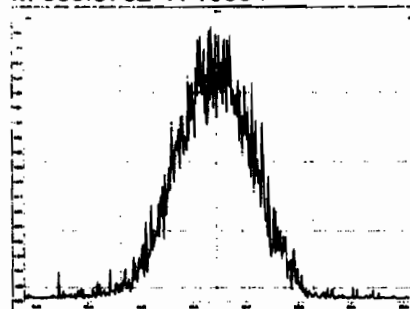
M 404.9760 R 10798



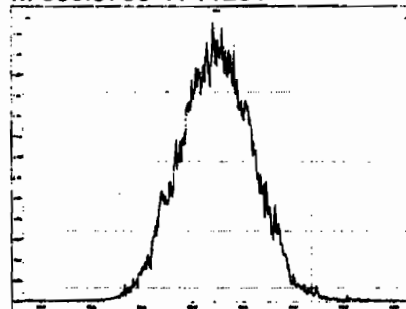
M 416.9760 R 10351



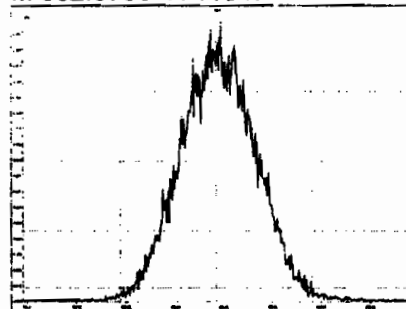
M 366.9792 R 10904



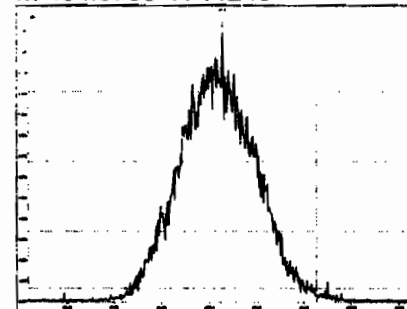
M 380.9760 R 11261



M 392.9760 R 11547

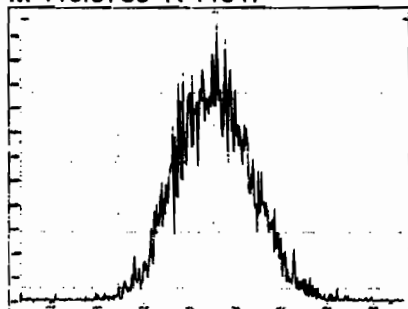


M 404.9760 R 11240

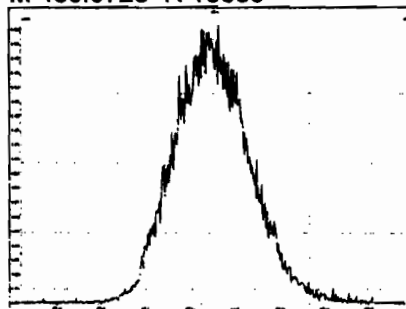


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

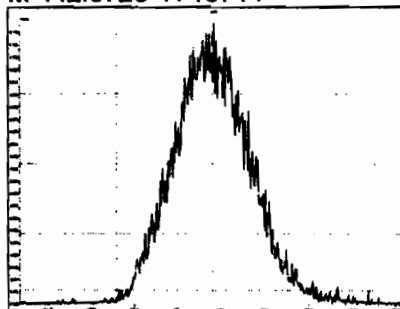
M 416.9760 R 11647



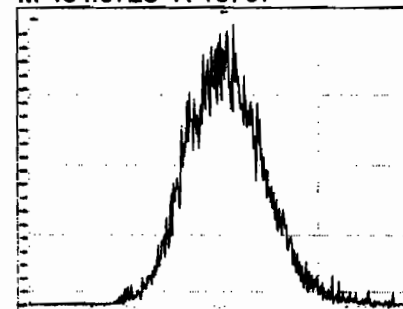
M 430.9728 R 10869



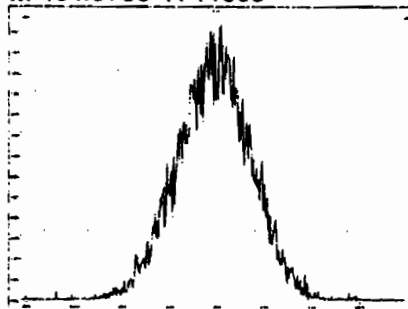
M 442.9728 R 10714



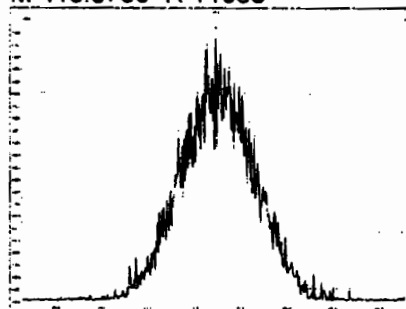
M 454.9728 R 10707



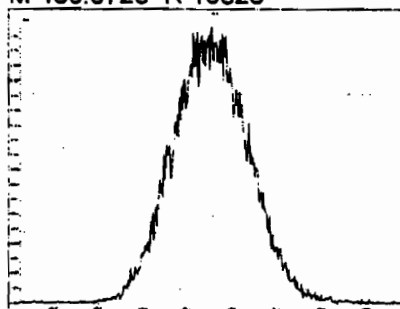
M 404.9760 R 11603



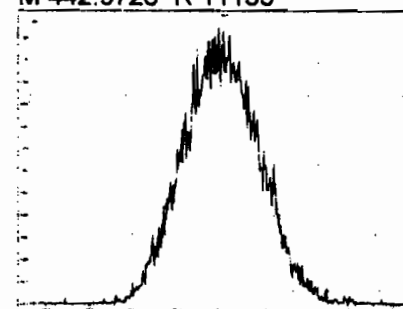
M 416.9760 R 11063



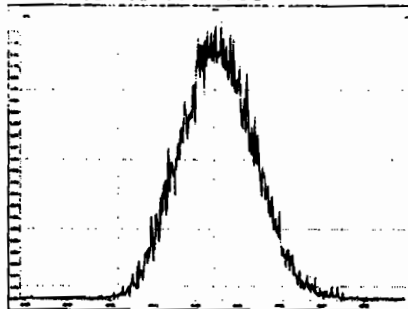
M 430.9728 R 10823



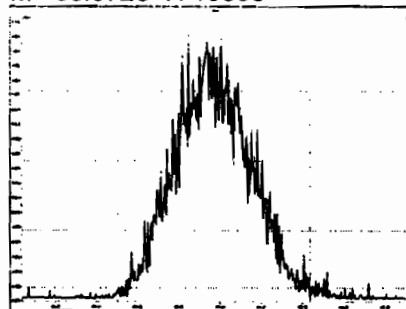
M 442.9728 R 11155



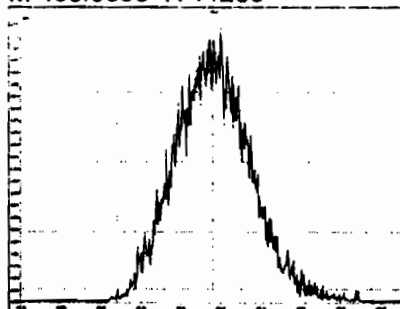
M 454.9728 R 11605



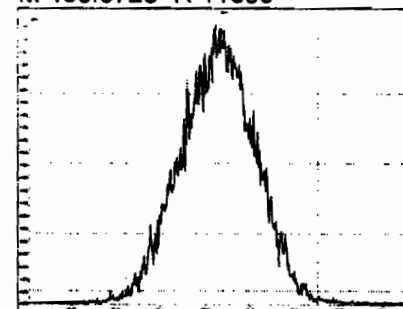
M 466.9728 R 10803



M 480.9696 R 11286

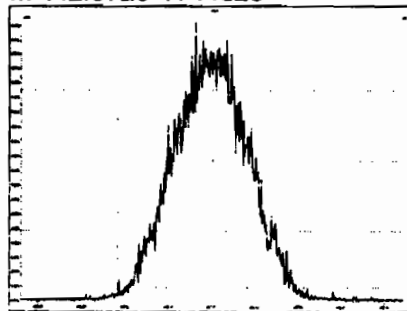


M 430.9728 R 11600

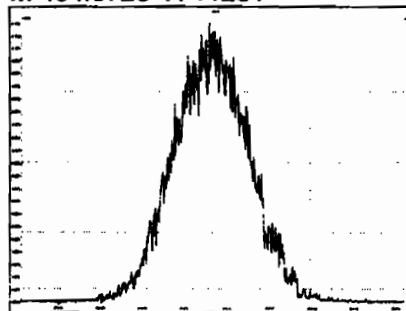


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

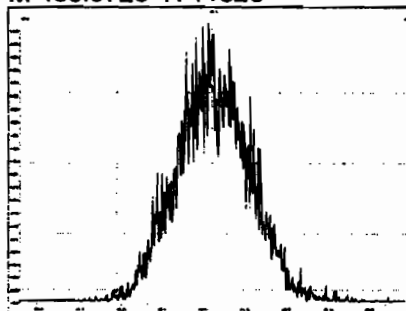
M 442.9728 R 11628



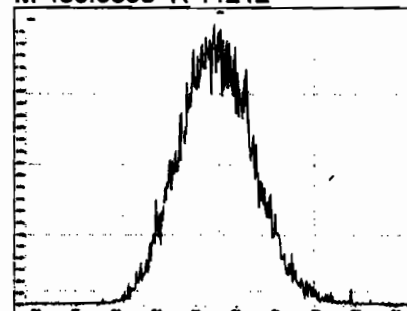
M 454.9728 R 11261



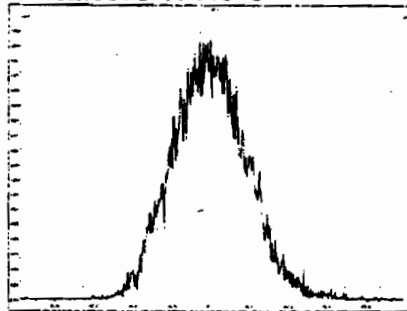
M 466.9728 R 11820



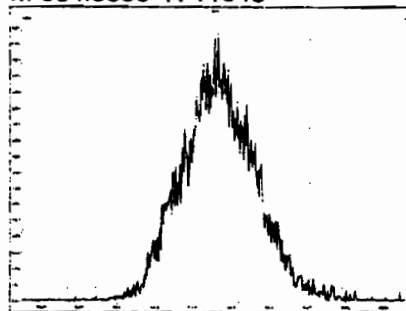
M 480.9696 R 11212



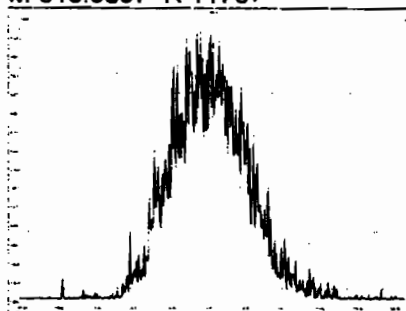
M 492.9696 R 11968



M 504.9696 R 11548



M 516.9697 R 11757



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20020222-1

Reviewed By: P.T 02/04/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	N
- Bottle position verified?	<u>GRB</u>	<u>GRB</u>

Mass resolution \geq

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<input type="checkbox"/>	<input type="checkbox"/> NA

Comments:

Ⓐ BEG. RES CHECK HAD ONE MASS BELOW 10K

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-2.qld

Last Altered: Monday, February 03, 2020 11:02:50 Pacific Standard Time
Printed: Monday, February 03, 2020 11:03:05 Pacific Standard Time

GRB 02/03/2020

OT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	nty	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	SFO out
1	1 2,3,7,8-TCDD	1.32e5	1.36e6	0.80	NO	0.988	25.71	25.69	NO	1.001	1.001	9.8840	98.8	NO
2	2 1,2,3,7,8-PeCDD	4.98e5	1.08e6	0.63	NO	0.972	30.64	30.64	NO	1.001	1.000	47.291	94.6	NO
3	3 1,2,3,4,7,8-HxCDD	4.84e5	8.99e5	1.23	NO	1.07	33.99	33.99	NO	1.000	1.000	50.303	101	NO
4	4 1,2,3,6,7,8-HxCDD	4.78e5	1.07e6	1.22	NO	0.921	34.07	34.09	NO	1.000	1.001	48.291	96.6	NO
5	5 1,2,3,7,8,9-HxCDD	4.64e5	1.02e6	1.22	NO	0.918	34.39	34.37	NO	1.001	1.000	49.500	99.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.76e5	8.41e5	1.03	NO	0.923	37.91	37.91	NO	1.000	1.000	48.425	96.8	NO
7	7 OCDD	7.60e5	1.62e6	0.88	NO	0.975	40.90	40.91	NO	1.000	1.000	96.383	96.4	NO
8	8 2,3,7,8-TCDF	1.54e5	1.92e6	0.74	NO	0.802	24.82	24.82	NO	1.001	1.001	10.002	100	NO
9	9 1,2,3,7,8-PeCDF	7.60e5	1.66e6	1.52	NO	0.907	29.36	29.35	NO	1.001	1.001	50.335	101	NO
10	10 2,3,4,7,8-PeCDF	7.70e5	1.62e6	1.54	NO	0.952	30.35	30.33	NO	1.001	1.000	49.866	99.7	NO
11	11 1,2,3,4,7,8-HxCDF	5.11e5	1.17e6	1.18	NO	0.862	33.11	33.13	NO	1.000	1.000	50.853	102	NO
12	12 1,2,3,6,7,8-HxCDF	5.46e5	1.25e6	1.18	NO	0.841	33.24	33.24	NO	1.000	1.000	51.737	103	NO
13	13 2,3,4,6,7,8-HxCDF	5.32e5	1.16e6	1.17	NO	0.898	33.84	33.82	NO	1.001	1.000	51.139	102	NO
14	14 1,2,3,7,8,9-HxCDF	4.40e5	1.01e6	1.19	NO	0.858	34.71	34.72	NO	1.000	1.000	50.675	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.83e5	8.89e5	0.99	NO	0.851	36.49	36.48	NO	1.001	1.001	50.637	101	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.27e5	6.47e5	0.99	NO	0.980	38.49	38.50	NO	1.000	1.000	51.641	103	NO
17	17 OCDF	7.32e5	1.83e6	0.86	NO	0.806	41.09	41.10	NO	1.000	1.000	99.333	99.3	NO
18	18 13C-2,3,7,8-TCDD	1.36e6	1.14e6	0.78	NO	1.20	25.68	25.67	NO	1.026	1.026	99.137	99.1	NO
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	1.14e6	0.65	NO	0.967	30.41	30.62	NO	1.215	1.223	98.148	98.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.99e5	1.09e6	1.27	NO	0.874	33.98	33.98	NO	1.014	1.014	94.278	94.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.07e6	1.09e6	1.27	NO	1.05	34.08	34.07	NO	1.017	1.017	94.128	94.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.02e6	1.09e6	1.25	NO	0.974	34.38	34.36	NO	1.026	1.025	96.039	96.0	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.41e5	1.09e6	1.05	NO	0.747	37.93	37.90	NO	1.132	1.131	103.19	103	NO
24	24 13C-OCDD	1.62e6	1.09e6	0.89	NO	0.707	40.81	40.90	NO	1.218	1.221	209.92	105	NO
25	25 13C-2,3,7,8-TCDF	1.92e6	1.80e6	0.77	NO	1.07	24.86	24.79	NO	0.993	0.990	100.44	100	NO
26	26 13C-1,2,3,7,8-PeCDF	1.66e6	1.80e6	1.57	NO	1.00	29.19	29.34	NO	1.166	1.172	92.466	92.5	NO
27	27 13C-2,3,4,7,8-PeCDF	1.62e6	1.80e6	1.58	NO	0.962	30.14	36.32	NO	1.204	1.211	94.031	94.0	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.17e6	1.09e6	0.50	NO	1.05	33.11	33.11	NO	0.988	0.988	101.84	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.25e6	1.09e6	0.51	NO	1.19	33.21	33.23	NO	0.991	0.992	96.652	96.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.16e6	1.09e6	0.51	NO	1.07	33.81	33.81	NO	1.009	1.009	99.510	99.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.01e6	1.09e6	0.51	NO	0.922	34.71	34.71	NO	1.036	1.036	100.59	101	NO

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-2.qld

Last Altered: Monday, February 03, 2020 11:02:50 Pacific Standard Time

Printed: Monday, February 03, 2020 11:03:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	CF	Pred RT	RT	RT Flag	Pred FRT	FRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	8.89e5	1.09e6	0.44	NO	0.767	36.46	36.46	NO	1.088	1.088	106.29	106	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.47e5	1.09e6	0.43	NO	0.552	38.47	38.49	NO	1.148	1.149	107.34	107	NO
34	13C-OCDF	1.83e6	1.09e6	0.88	NO	0.789	41.05	41.09	NO	1.225	1.226	212.60	106	NO
35	37Cl-2,3,7,8-TCDD	1.38e5	1.14e6			1.18	25.71	25.69	NO	1.027	1.026	10.310	103	NO
36	13C-1,2,3,4-TCDD	1.14e6	1.14e6	0.80	NO	1.00	25.08	25.03	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.80e6	1.80e6	0.79	NO	1.00	23.42	23.37	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.09e6	1.09e6	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES ^{OK}
39	Total Tetra-Dioxins		1.36e6			0.988	24.62		NO	0.000		85.288		NO
40	Total Penta-Dioxins		1.08e6			0.972	29.96		NO	0.000		207.96		NO
41	Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		244.66		NO
42	Total Hepta-Dioxins		8.41e5			0.923	37.64		NO	0.000		128.97		NO
43	Total Tetra-Furans		1.92e6			0.802	23.61		NO	0.000		46.365		NO
44	1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		174.20		NO
46	Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		284.14		NO
47	Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		102.28		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:25 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:37 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RET
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.65
3	3 1,2,4,7,9-PeCDD (First)	28.42
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.86
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.91
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.80
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.48
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:51:13 Pacific Standard Time

Printed: Monday, February 03, 2020 10:51:19 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

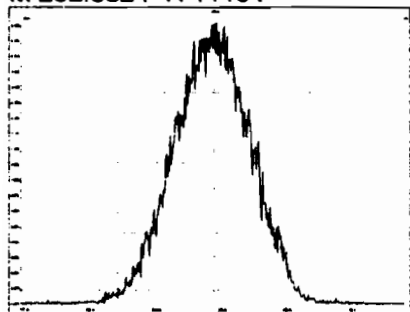
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

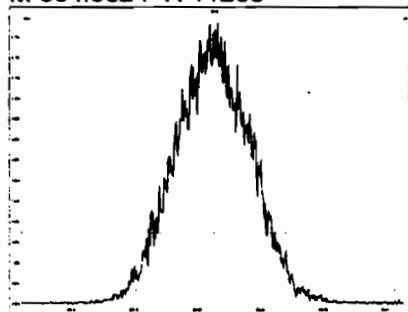
	Name	ID	Acq.Date	Acq.Time
1	200202R2_1	SOLVENT BLANK	02-Feb-20	22:17:48
2	200202R2_2	ST200202R2_1 1613 CS3 19L2305	02-Feb-20	23:04:08
3	200202R2_3	SOLVENT BLANK	02-Feb-20	23:51:05
4	200202R2_4	1903654-10 PDI-076SC-B-02-05-191013 17.48	03-Feb-20	00:38:03
5	200202R2_5	1903654-11 PDI-076SC-B-05-07-191013 16.56	03-Feb-20	01:25:04
6	200202R2_6	1903827-01 PDI-057SC-B-00-02-191023 19.01	03-Feb-20	02:12:02
7	200202R2_7	1903827-02 PDI-057SC-B-02-04-191023 18.69	03-Feb-20	02:59:07
8	200202R2_8	1903827-03 PDI-057SC-B-04-06-191023 17.03	03-Feb-20	03:46:08
9	200202R2_9	1903827-04 PDI-057SC-B-06-08-191023 17.29	03-Feb-20	04:33:07
10	200202R2_10	1903827-05 PDI-062SC-B-00-02-191023 17.51	03-Feb-20	05:20:13
11	200202R2_11	1903827-06 PDI-062SC-B-02-04-191023 17.49	03-Feb-20	06:07:13
12	200202R2_12	1903827-07 PDI-062SC-B-04-06-191023 16.2	03-Feb-20	06:54:13
13	200202R2_13	1903827-08 PDI-062SC-B-06-08-191023 14.01	03-Feb-20	07:41:13
14	200202R2_14	SOLVENT BLANK	03-Feb-20	08:37:05

Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

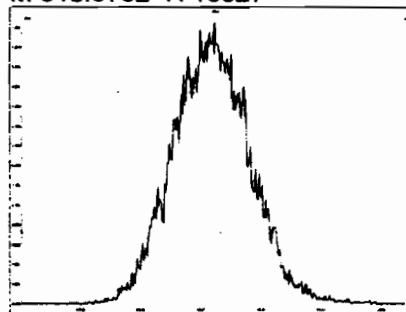
M 292.9824 R 11194



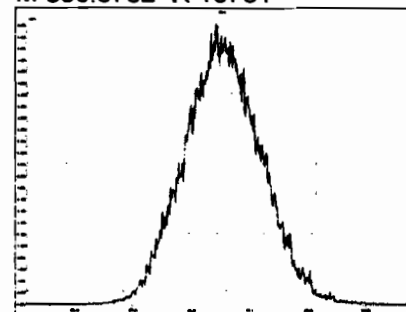
M 304.9824 R 11236



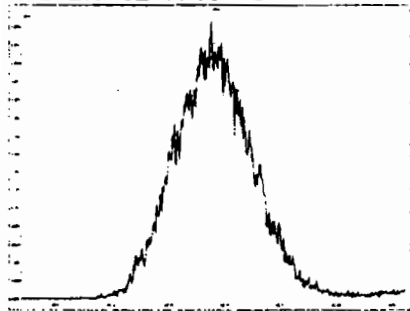
M 318.9792 R 10927



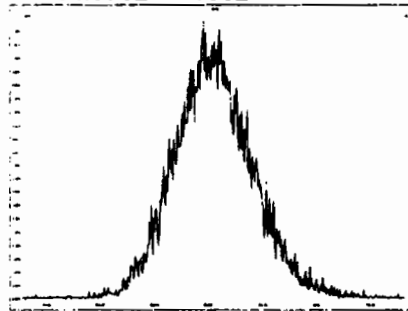
M 330.9792 R 10731



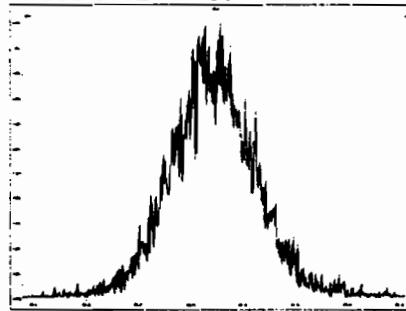
M 342.9792 R 10578



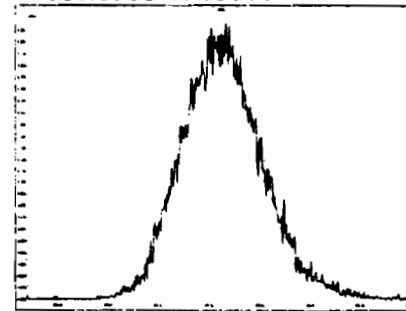
M 354.9792 R 10825



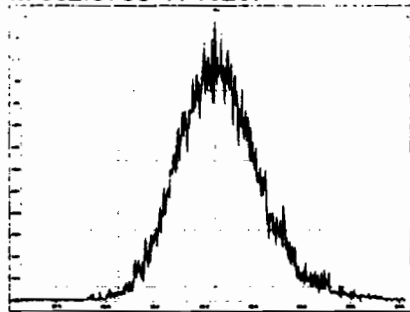
M 366.9792 R 10377



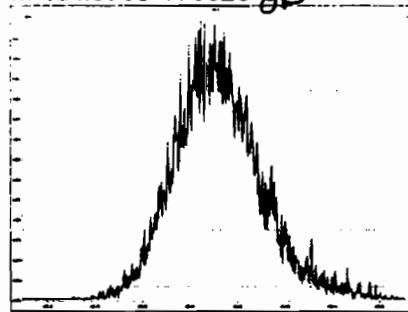
M 380.9760 R 10144



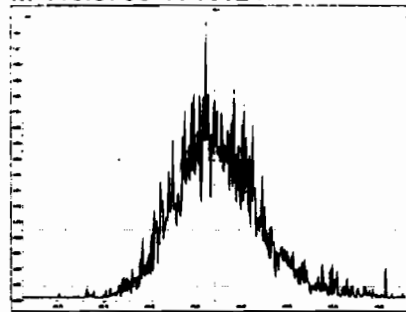
M 392.9760 R 10287



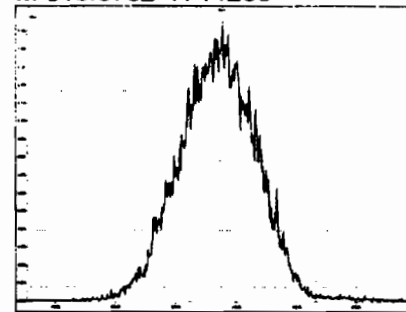
M 404.9760 R 9925 *ok*



M 416.9760 R 10321

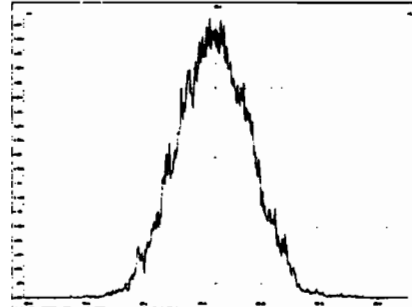


M 318.9792 R 11266

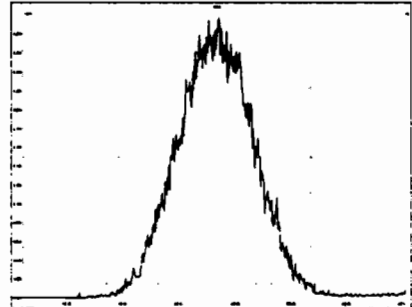


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

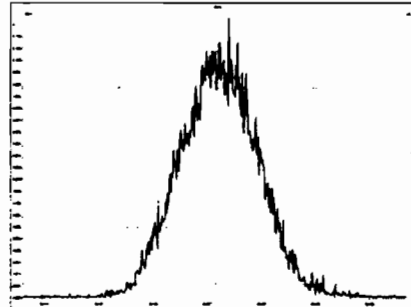
M 330.9792 R 11365



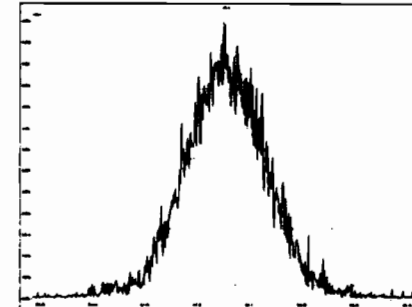
M 342.9792 R 11121



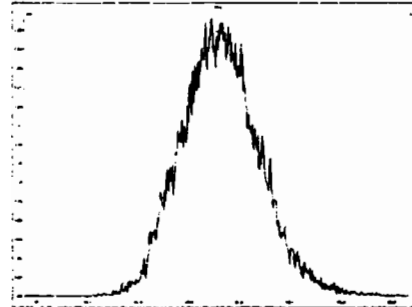
M 354.9792 R 10731



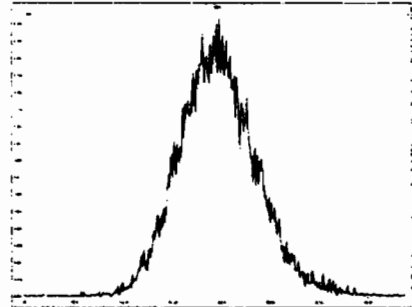
M 366.9792 R 10978



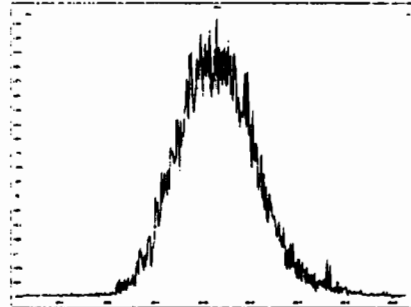
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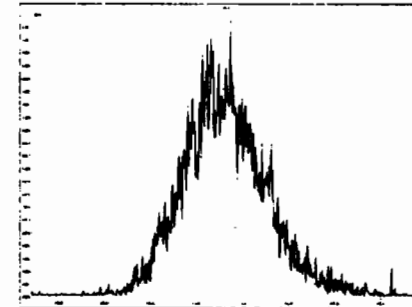
M 392.9760 R 11135



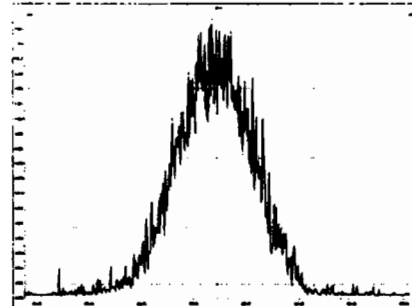
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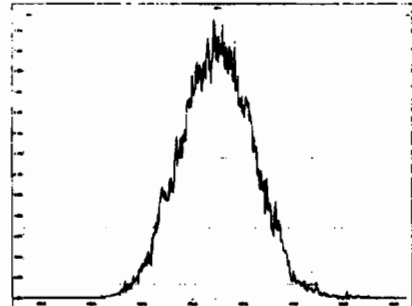
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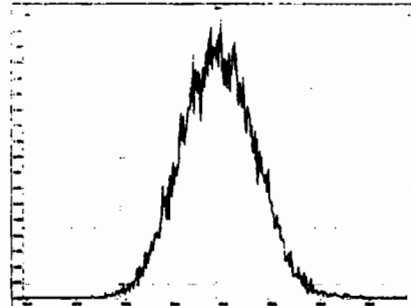
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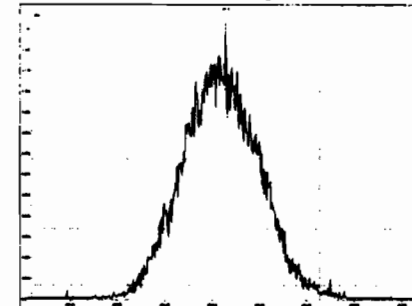
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M 392.9760 R 11547

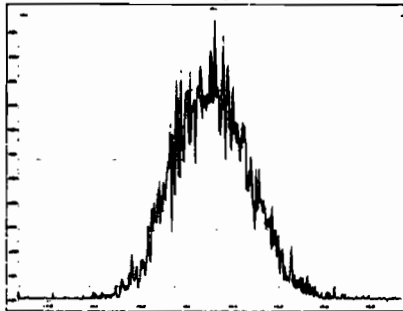


M 404.9760 R 11240

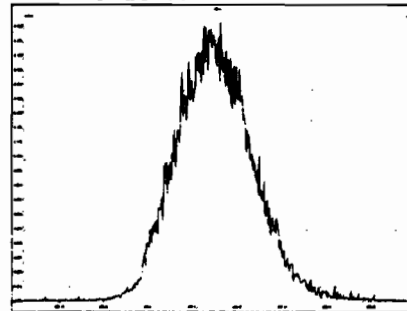


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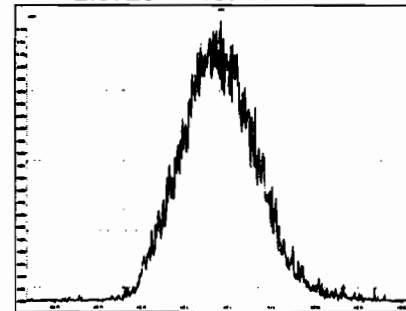
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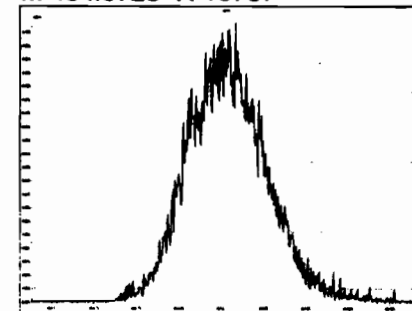
M 430.9728 R 10869



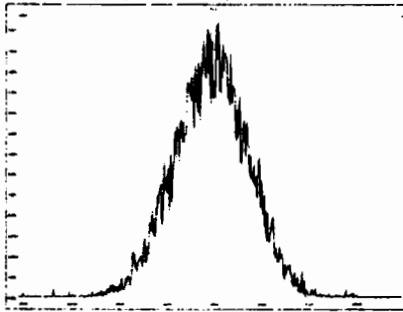
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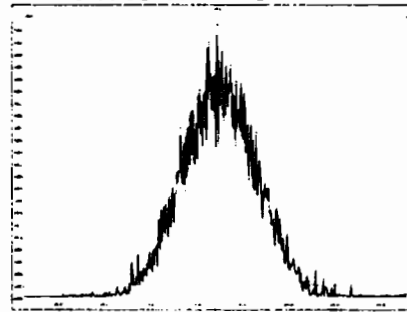
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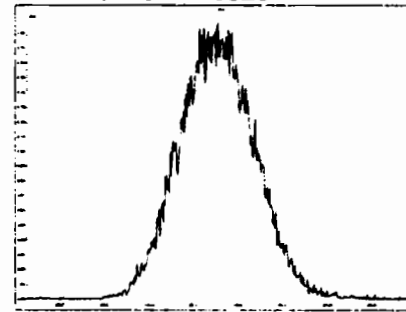
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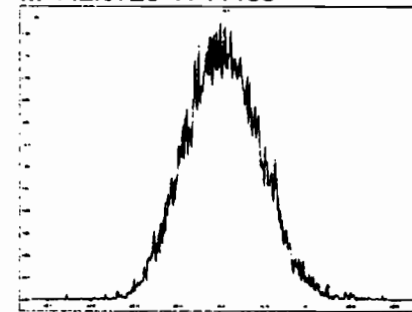
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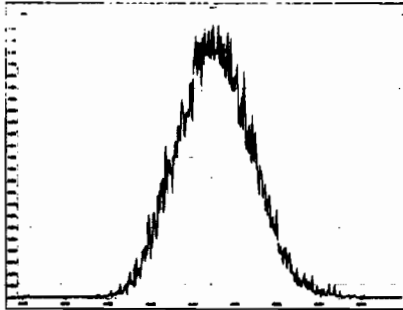
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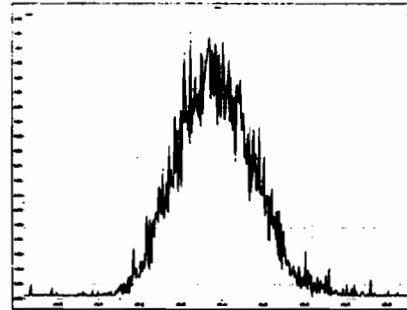
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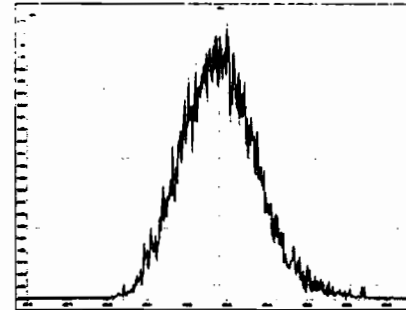
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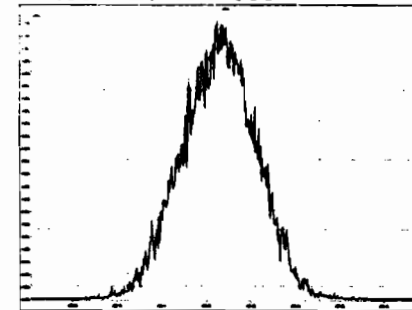
M 466.9728 R 10803



M 480.9696 R 11286

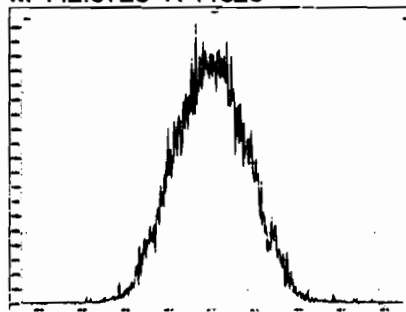


M 430.9728 R 11600

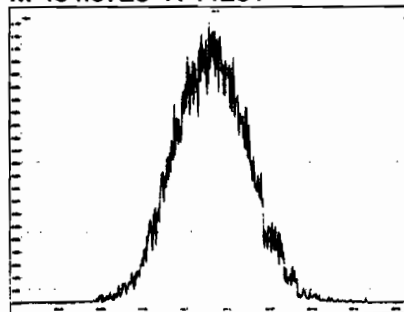


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

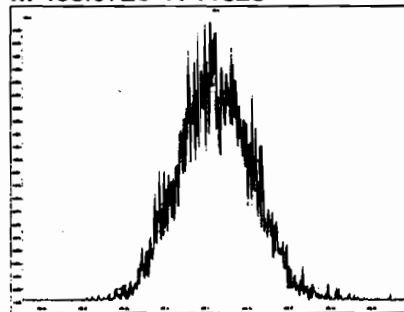
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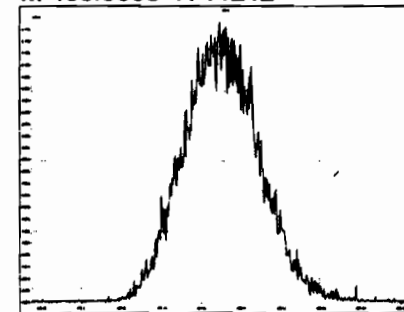
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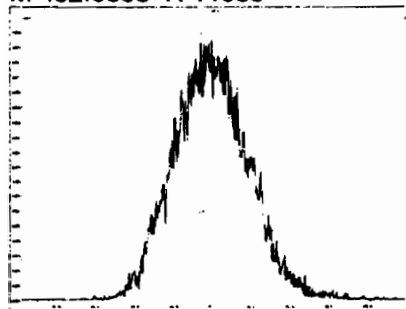
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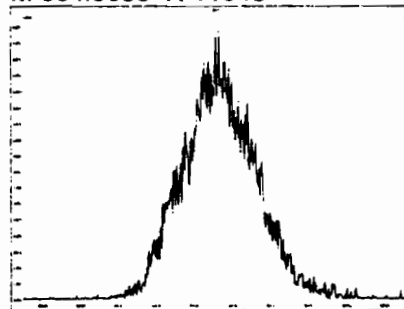
M 480.9696 R 11212



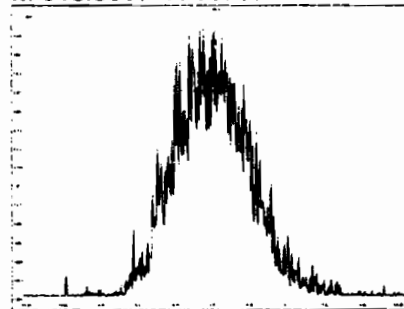
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M 504.9696 R 11548



M 516.9697 R 11757



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Printed: Monday, February 03, 2020 10:47:37 Pacific Standard Time

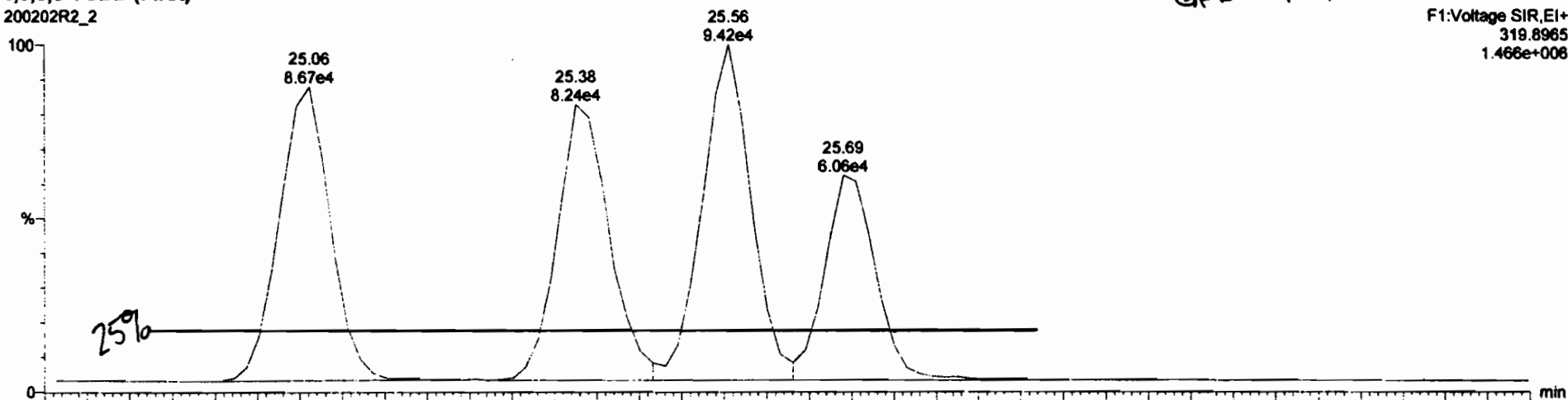
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Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200202R2_2

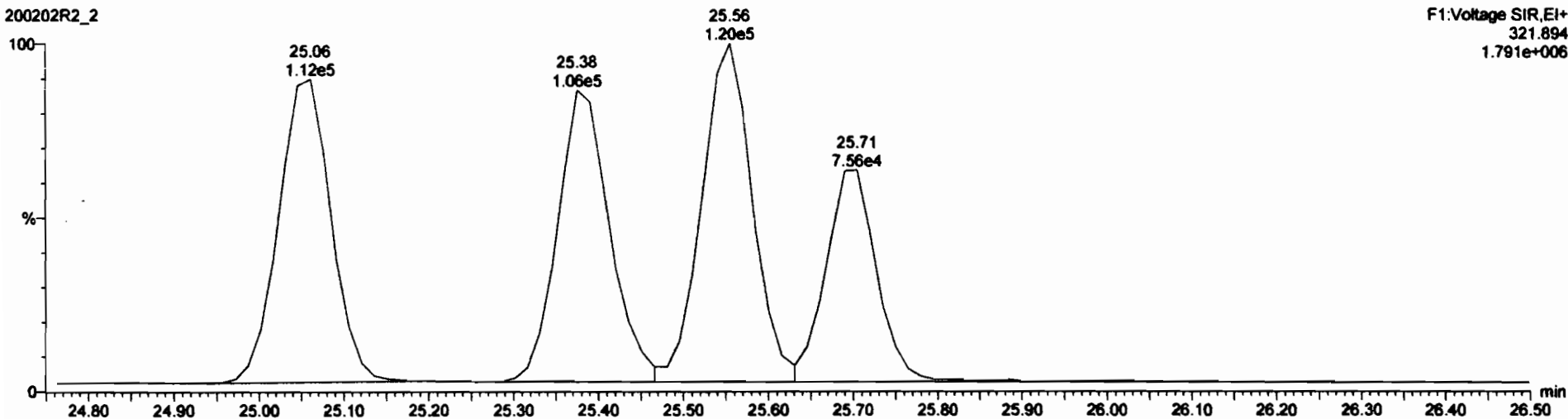
GPB 02/03/2020

F1:Voltage SIR,EI+
319.8965
1.466e+006



200202R2_2

F1:Voltage SIR,EI+
321.894
1.791e+006



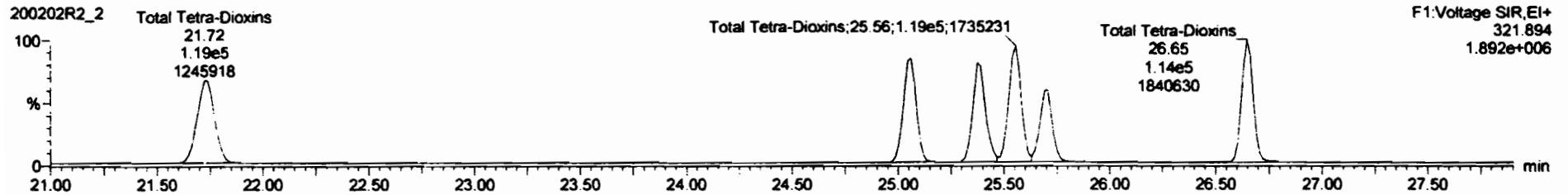
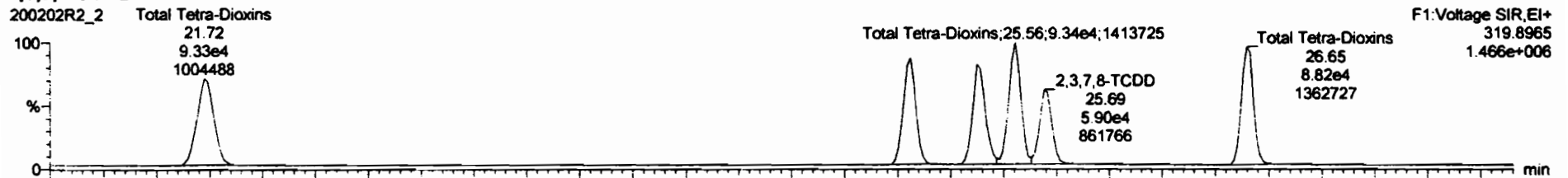
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

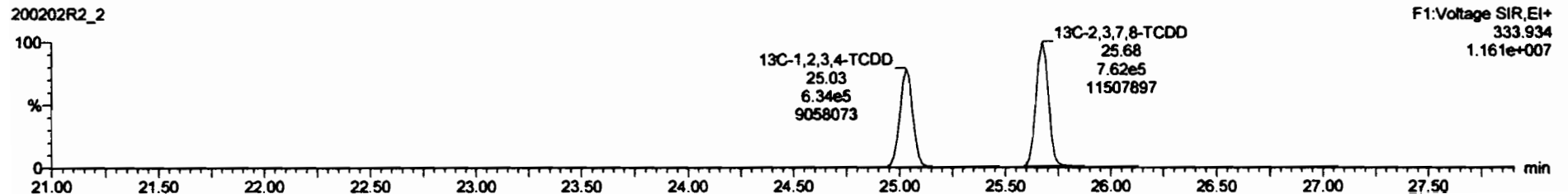
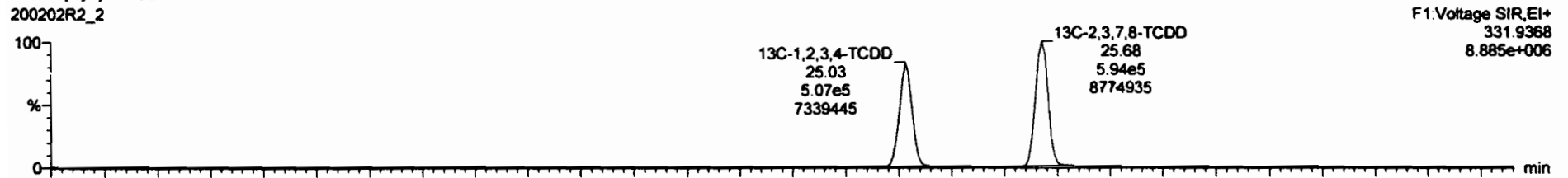
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



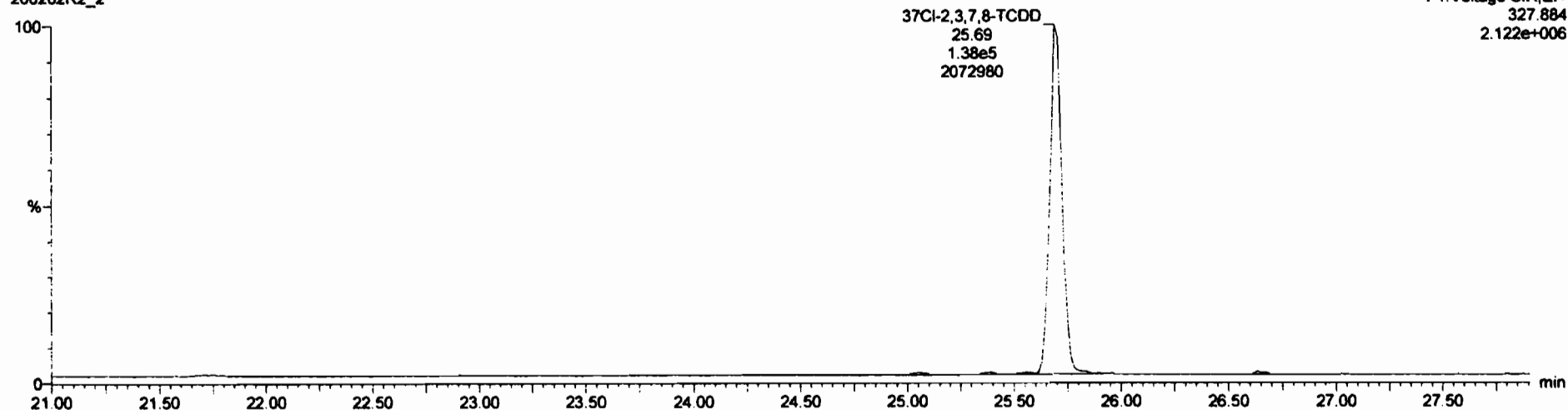
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

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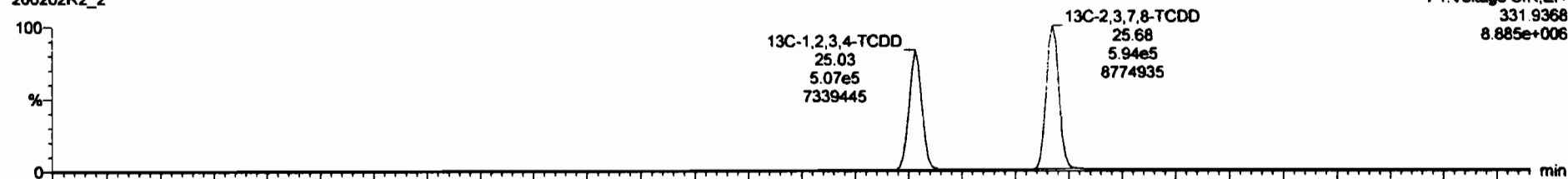
37Cl-2,3,7,8-TCDD

200202R2_2

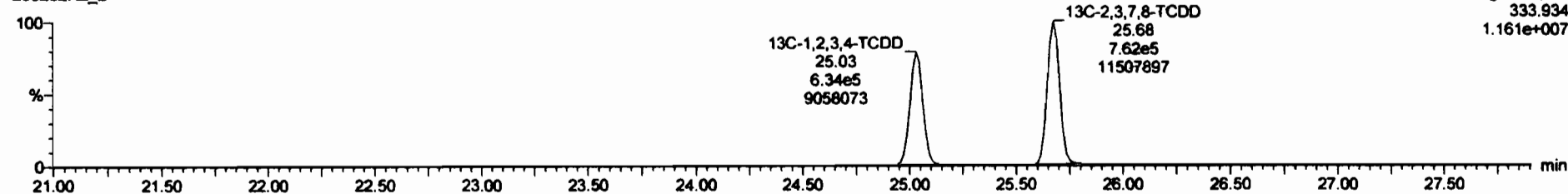


13C-1,2,3,4-TCDD

200202R2_2



200202R2_2



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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

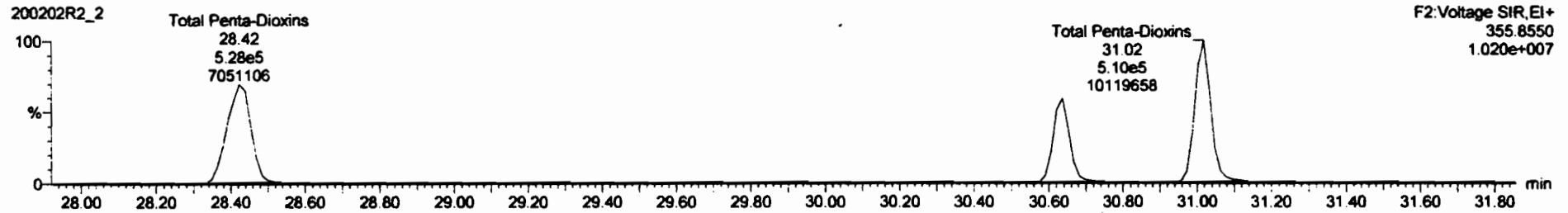
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1,2,3,7,8-PeCDD

200202R2_2



200202R2_2

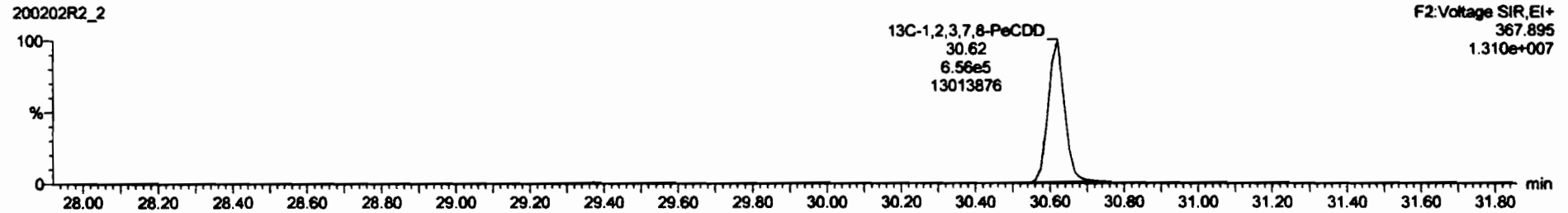


13C-1,2,3,7,8-PeCDD

200202R2_2



200202R2_2



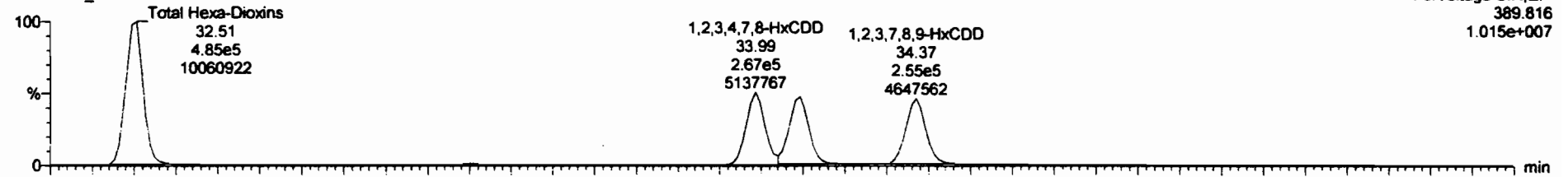
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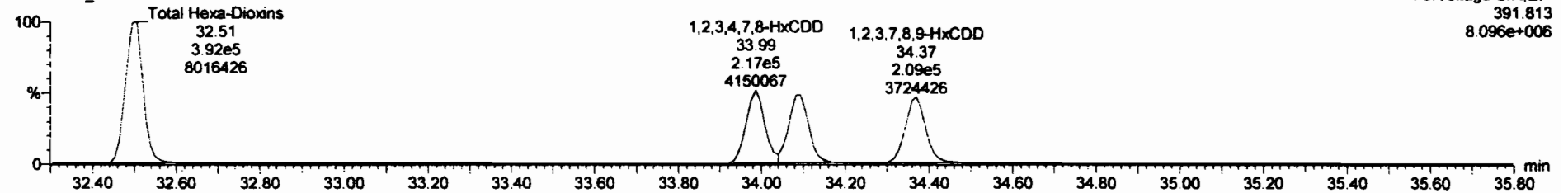
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1,2,3,4,7,8-HxCDD

200202R2_2

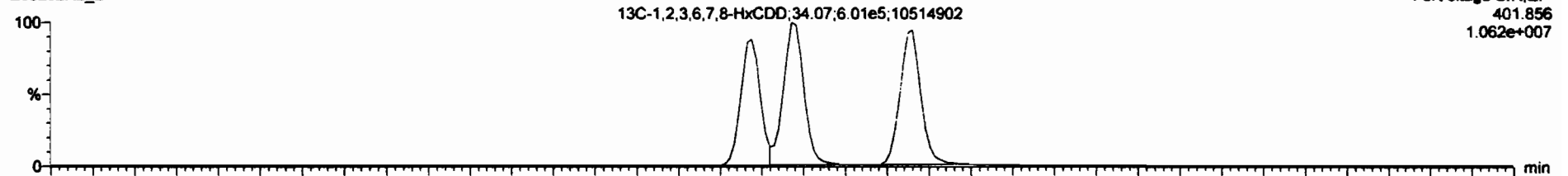


200202R2_2

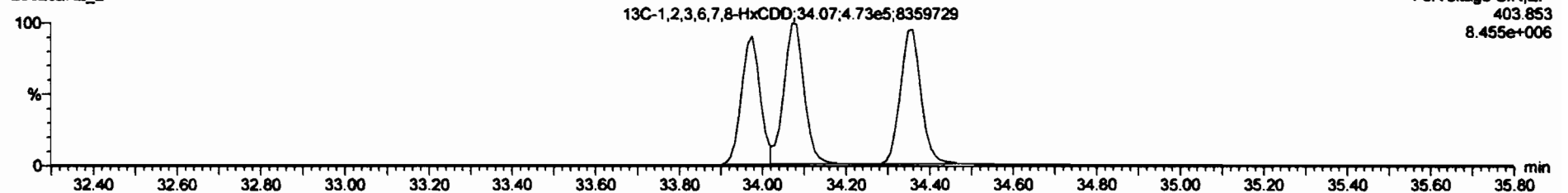


13C-1,2,3,4,7,8-HxCDD

200202R2_2



200202R2_2



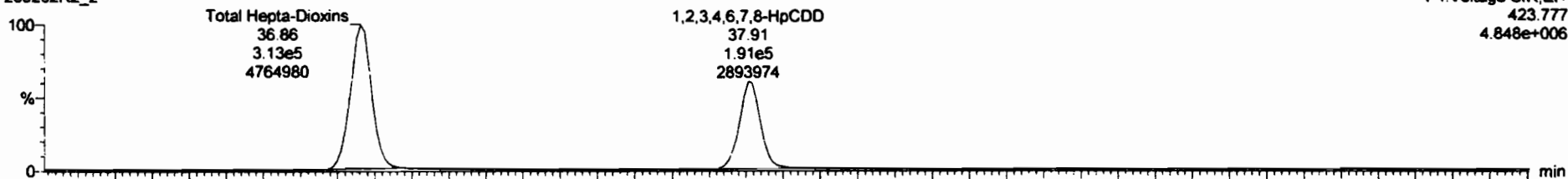
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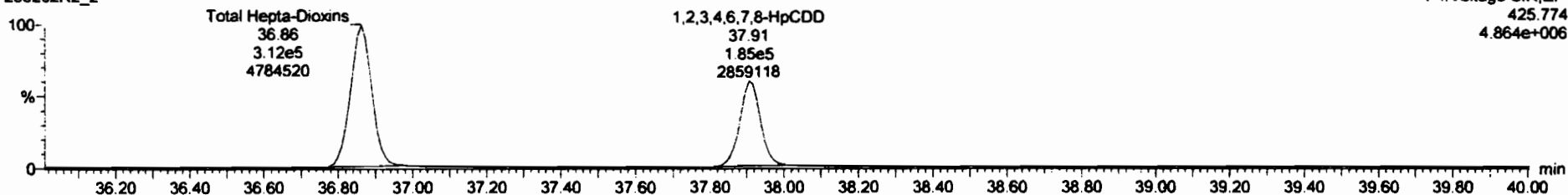
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1,2,3,4,6,7,8-HpCDD

200202R2_2

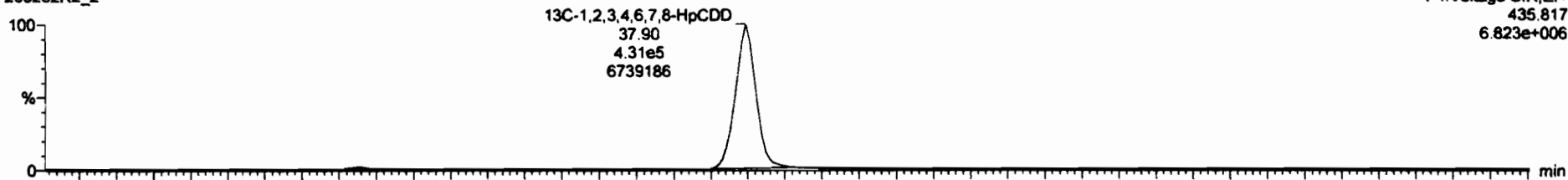


200202R2_2

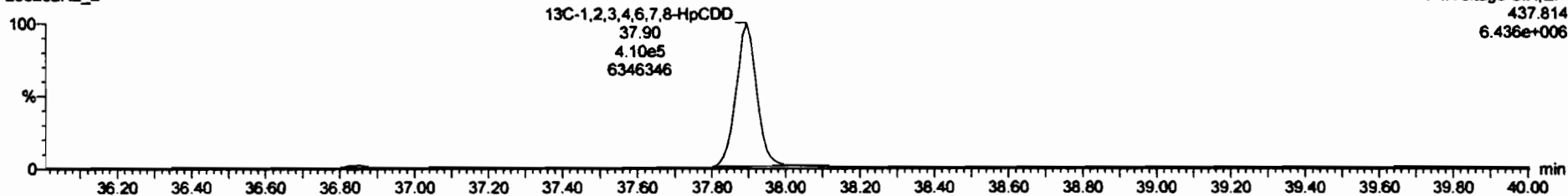


13C-1,2,3,4,6,7,8-HpCDD

200202R2_2



200202R2_2



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time

Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

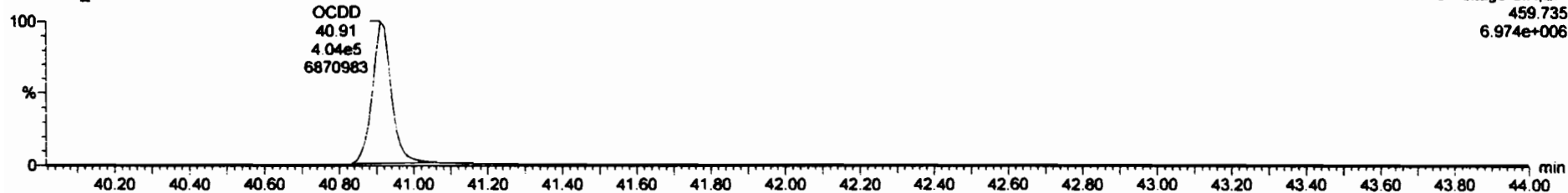
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OCDD

200202R2_2



200202R2_2

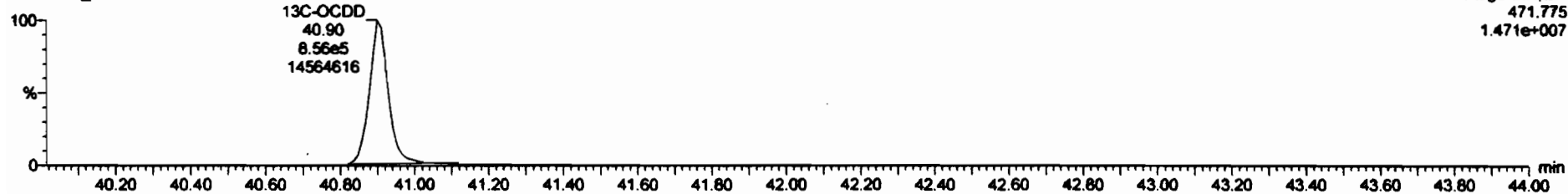


13C-OCDD

200202R2_2



200202R2_2

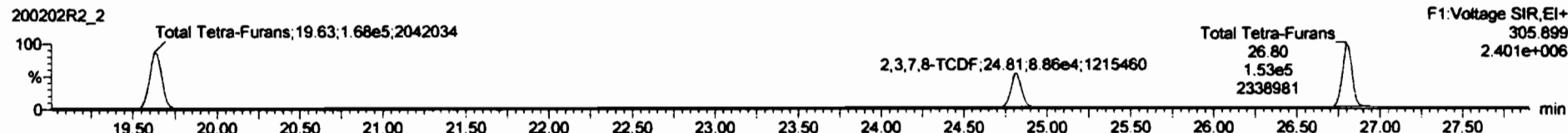


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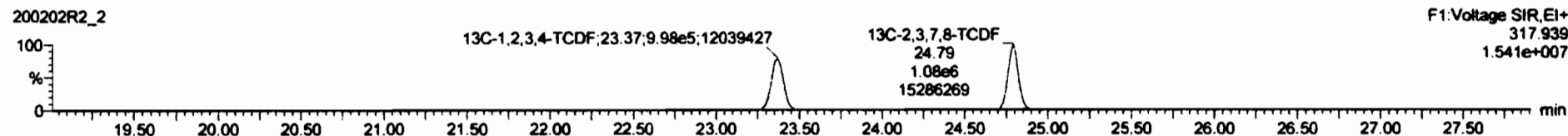
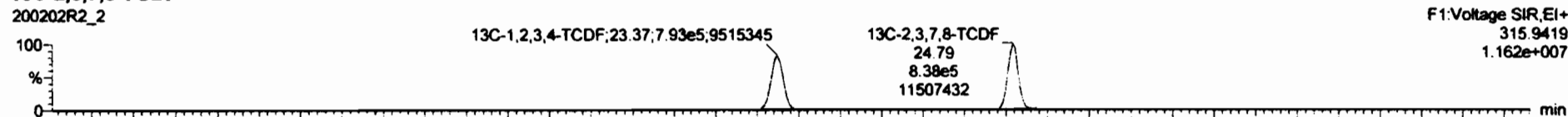
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

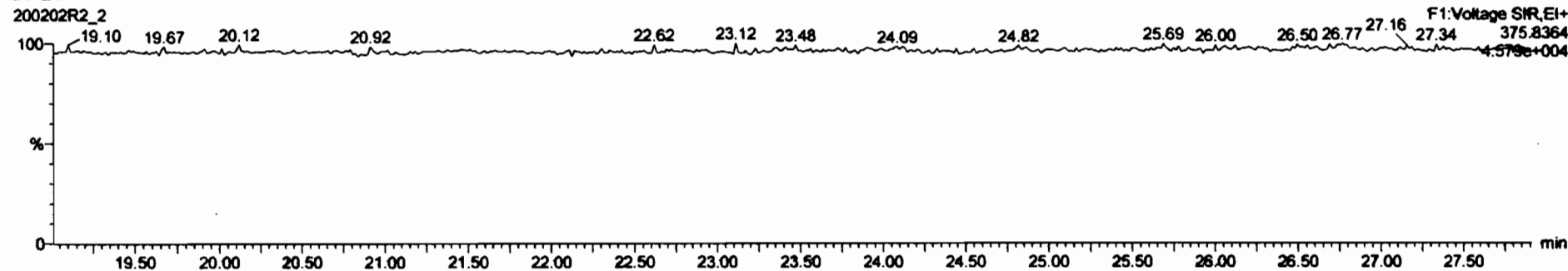
2,3,7,8-TCDF



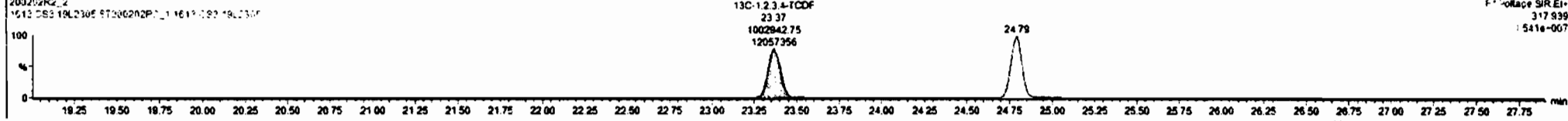
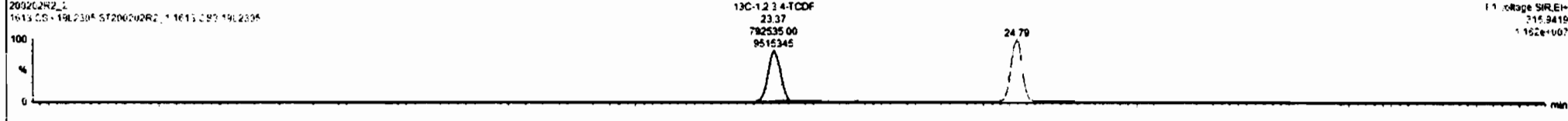
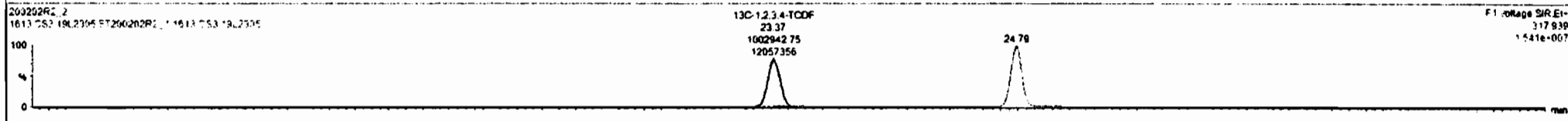
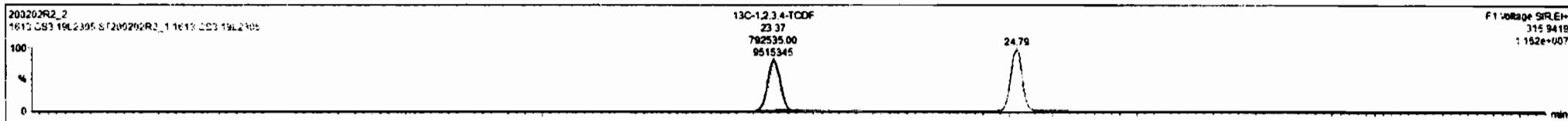
13C-2,3,7,8-TCDF



DPE1



Run	Sample	Conc	Peak	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Pass/Fail
38	13C-1,2,3,4,6,9-TuCDF	1.00e0	1.00e6	0.51	0.51	NO	1.0000	33.52	33.51	NO	1.000	1.000	100	100	YES	
39	Total Tetra-Dioxins						0.8861	24.62		NO	0.000		85.3		NO	
40	Total Penta-Dioxins						0.9723	29.96		NO	0.000		208		NO	
41	Total Hexa-Dioxins						0.9211	33.63		NO	0.000		245		NO	
42	Total Hepta-Dioxins						0.9231	37.64		NO	0.000		129		NO	
43	Total Tetra-Furans						0.6020	23.61		NO	0.000		46.4		NO	
44	1st Func. Penta-Furans						0.9074	27.09		NO	0.000				NO	
45	Total Penta-Furans						0.9874	29.27		NO	0.000		174		NO	
46	Total Hexa-Furans						0.8882	33.96		NO	0.000		284		NO	
47	Total Hepta-Furans						0.8511	37.63		NO	0.000		102		NO	
48	PFK1															
49	PFK2															
50	PFK3															
51	PFK4															
52	PFK5															
53	DPE1															



Dataset: Untitled

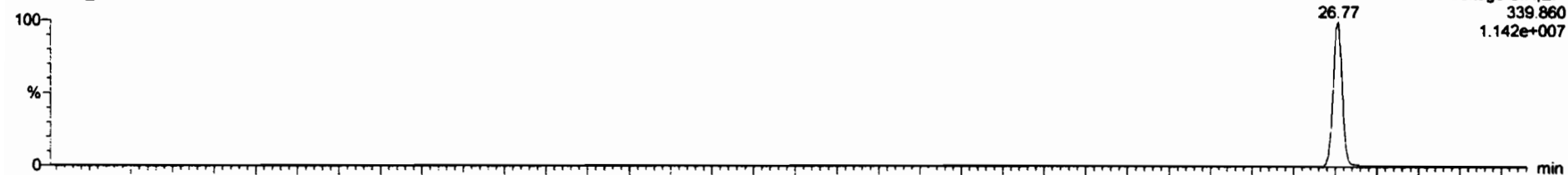
Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time

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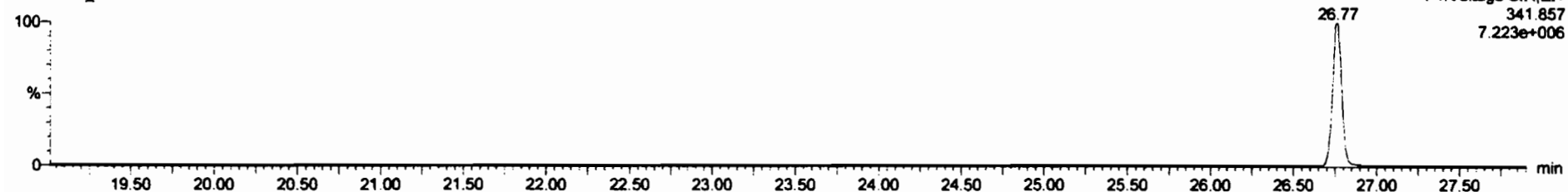
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1st Func. Penta-Furans

200202R2_2

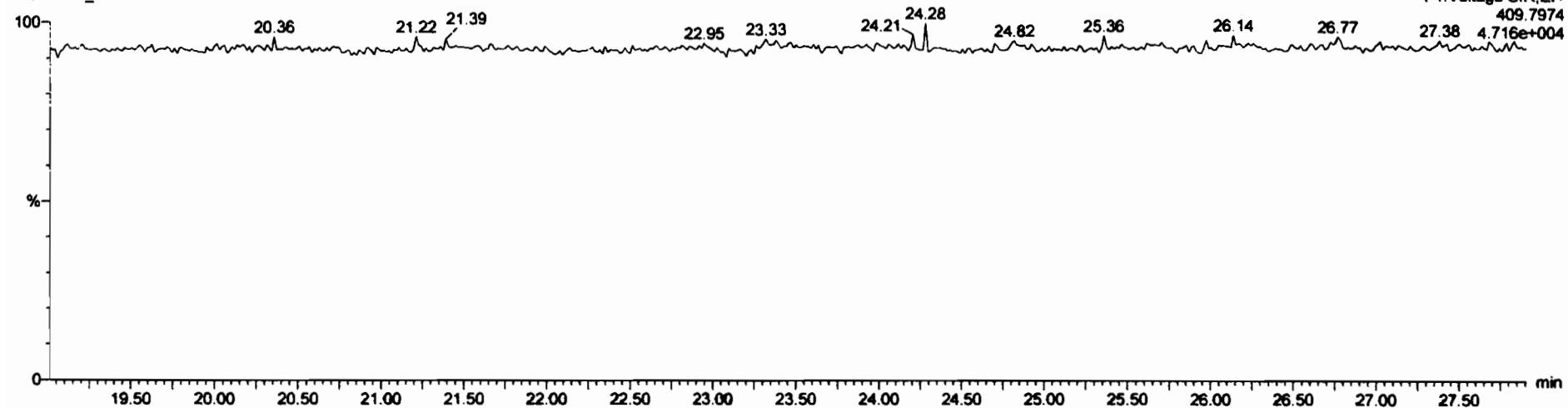


200202R2_2



DPE6

200202R2_2



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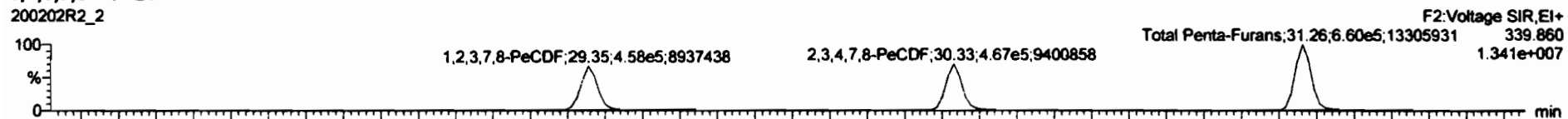
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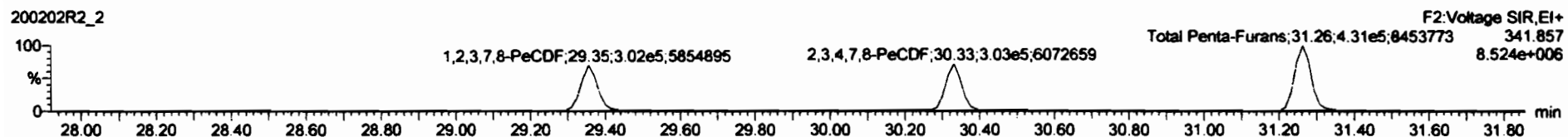
Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200202R2_2

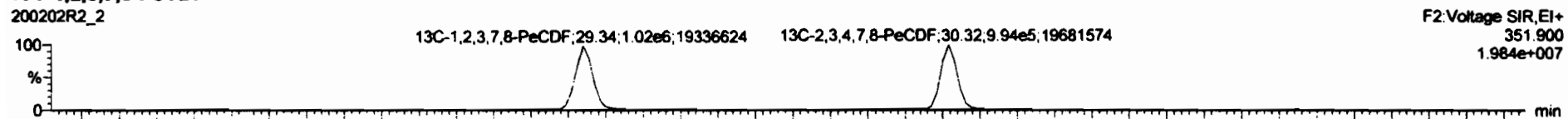


200202R2_2

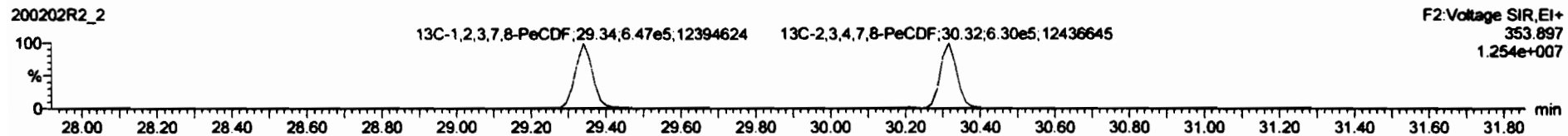


13C-1,2,3,7,8-PeCDF

200202R2_2

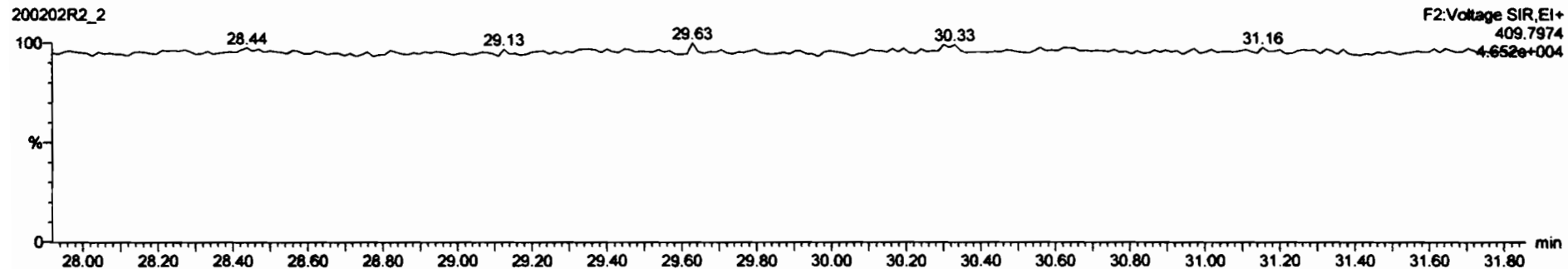


200202R2_2



DPE2

200202R2_2



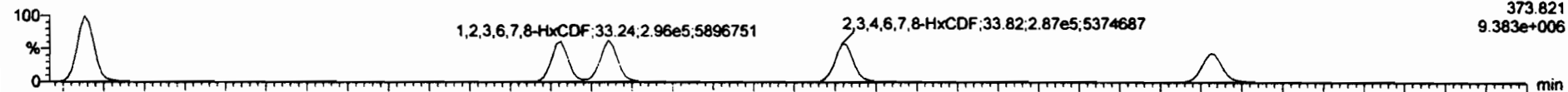
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Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

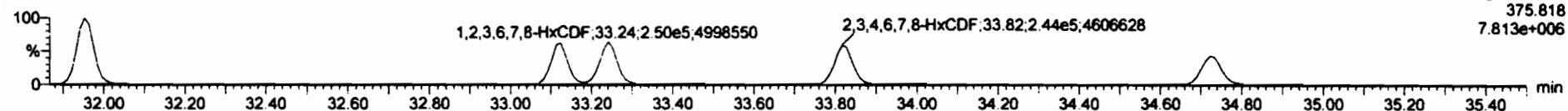
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1,2,3,4,7,8-HxCDF

200202R2_2

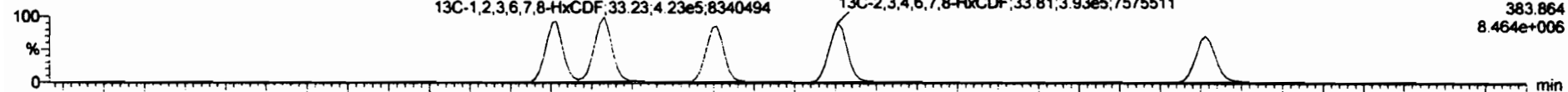


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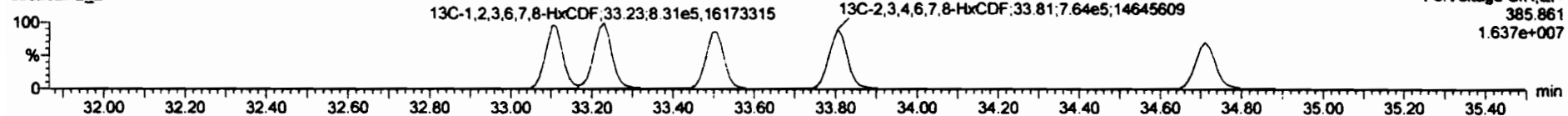


13C-1,2,3,4,7,8-HxCDF

200202R2_2

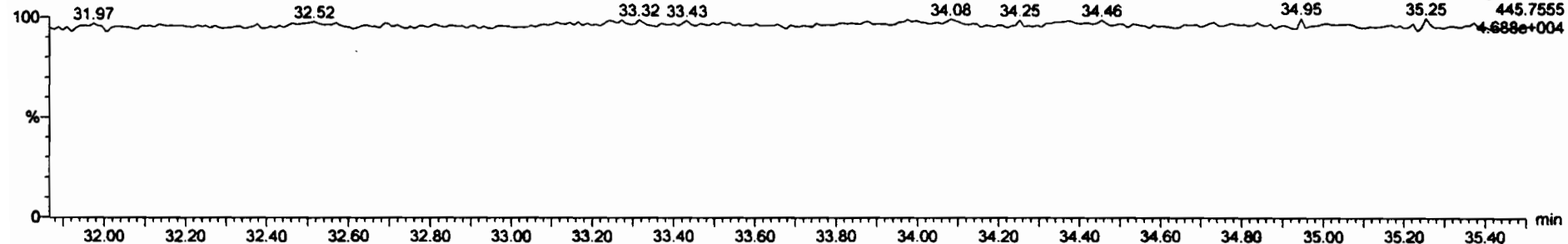


200202R2_2



DPE3

200202R2_2



Dataset: Untitled

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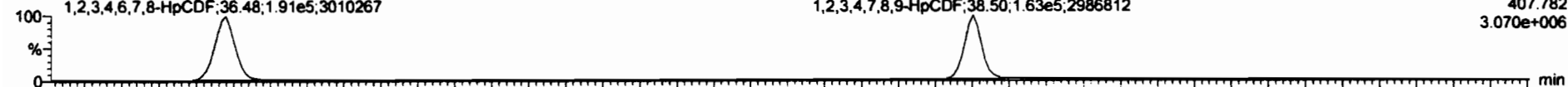
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Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,4,6,7,8-HpCDF

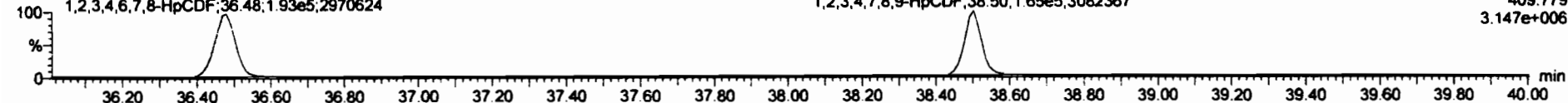
200202R2_2

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200202R2_2

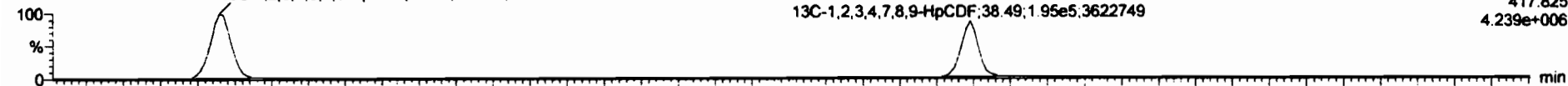
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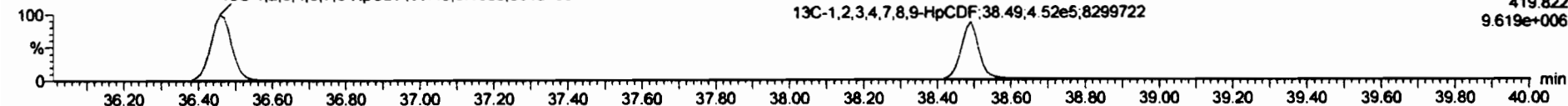
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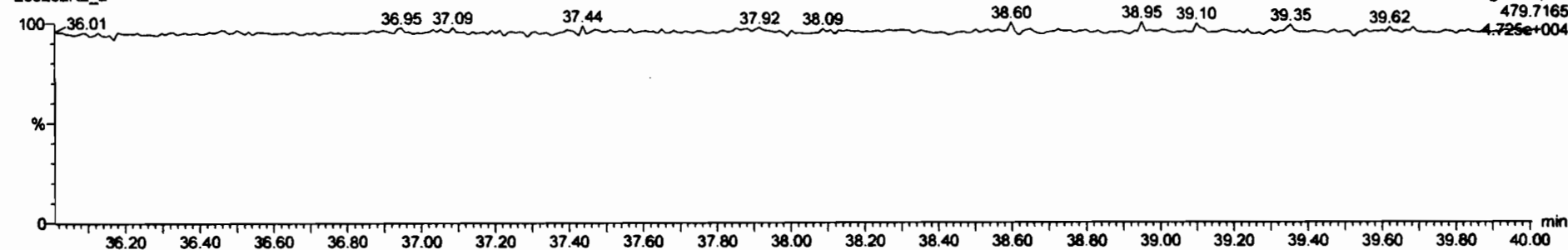
200202R2_2

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DPE4

200202R2_2

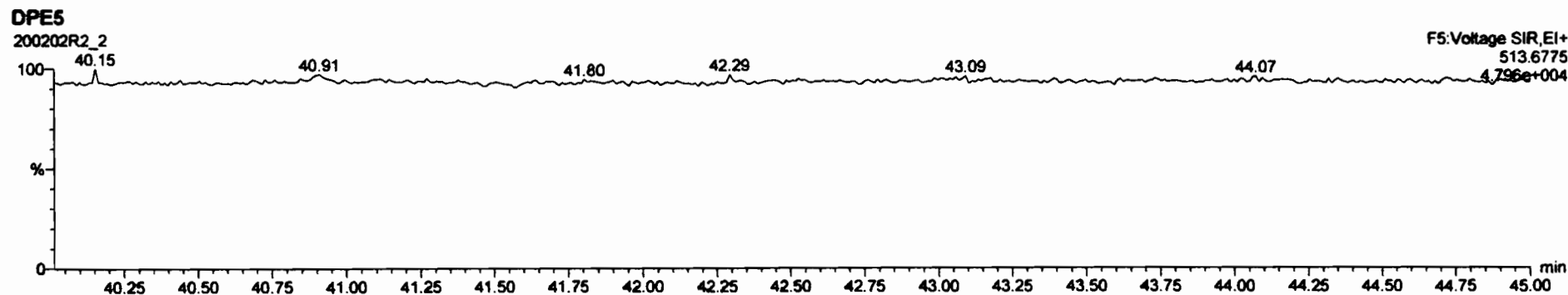
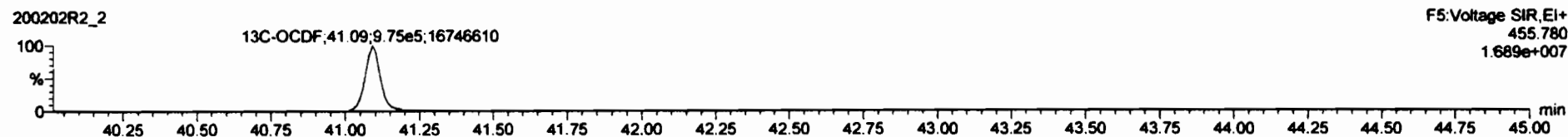
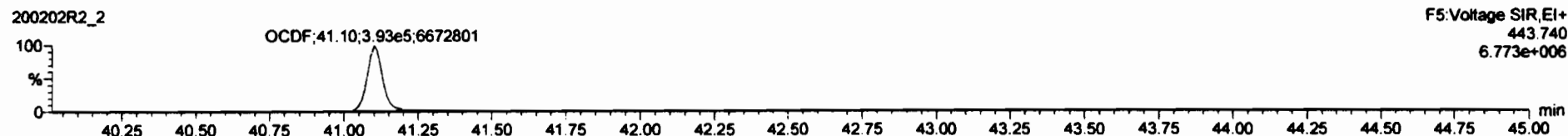
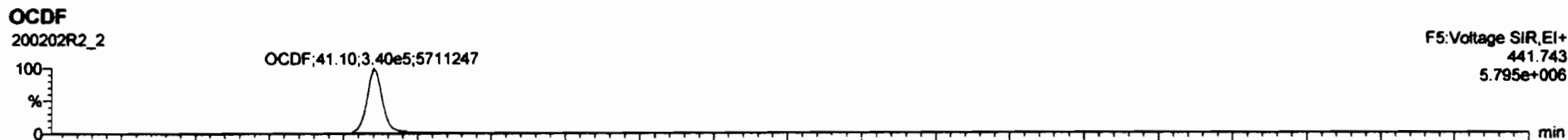


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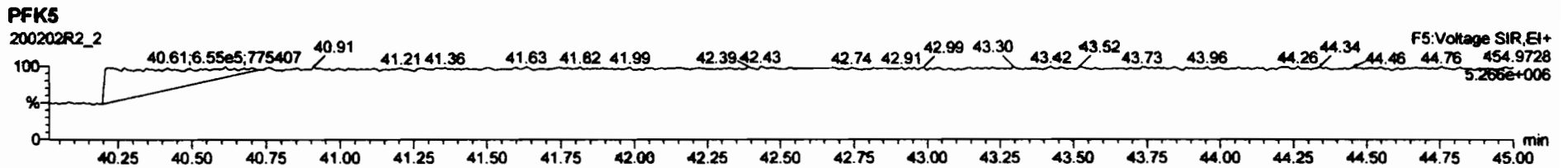
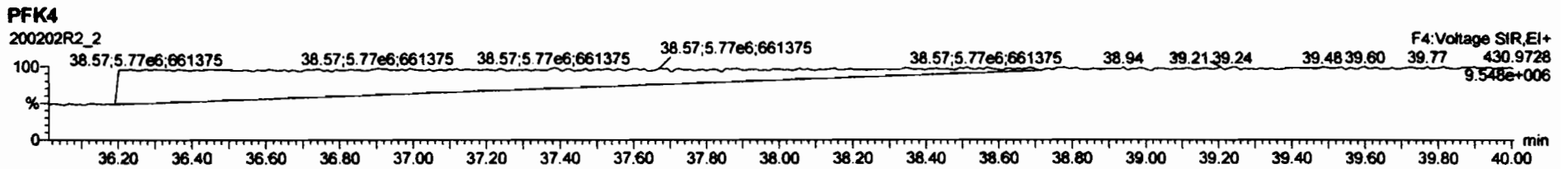
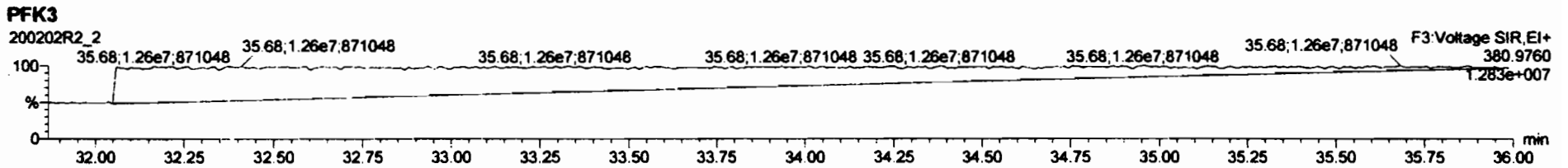
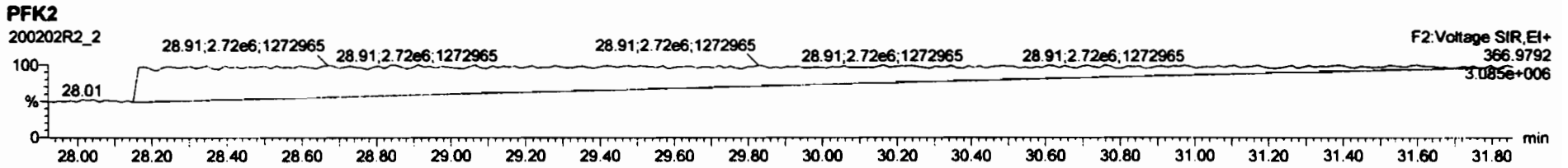
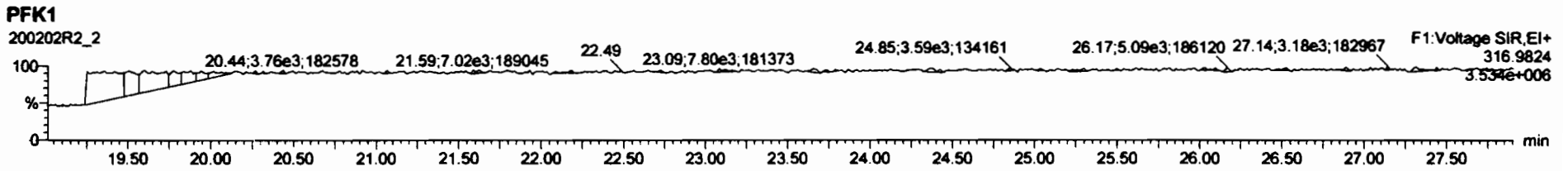
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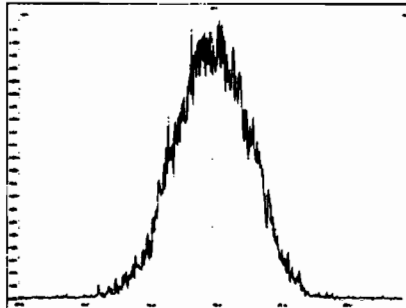
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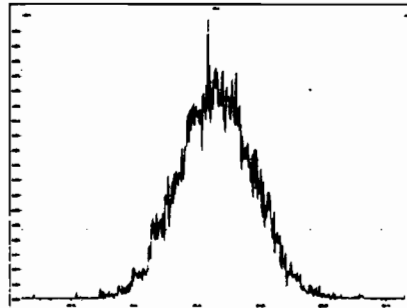


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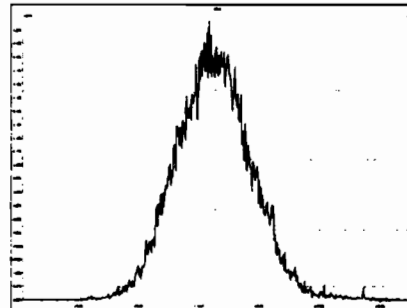
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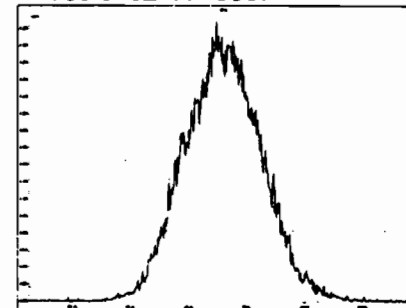
M 304.9824 R 11672



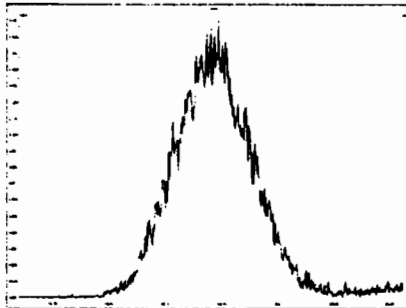
M 318.9792 R 10988



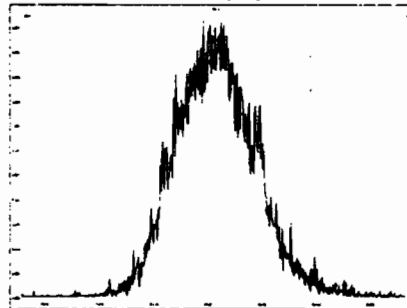
M 330.9792 R 10807



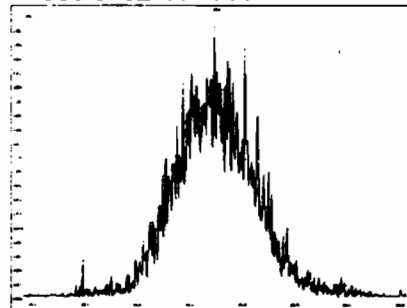
M 342.9792 R 10849



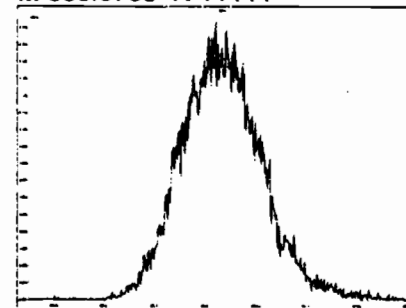
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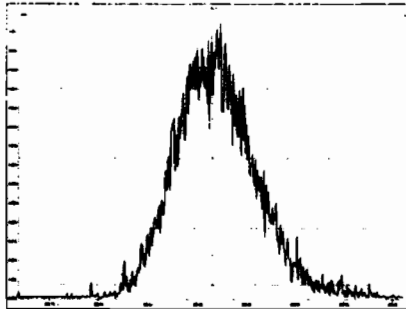
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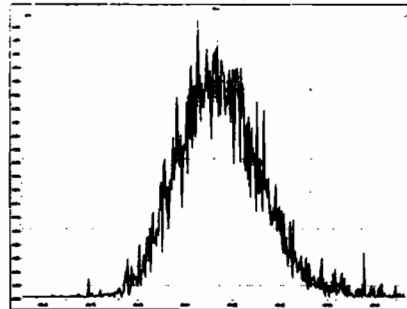
M 380.9760 R 11111



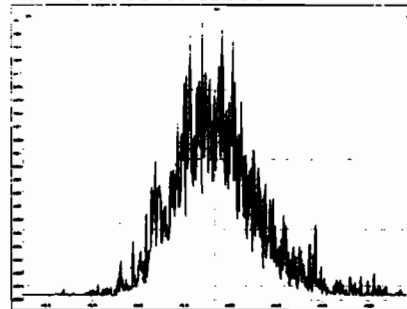
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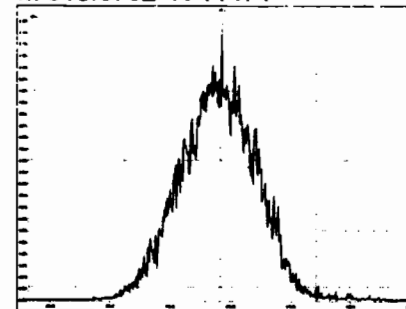
M 404.9760 R 10752



M 416.9760 R 10000

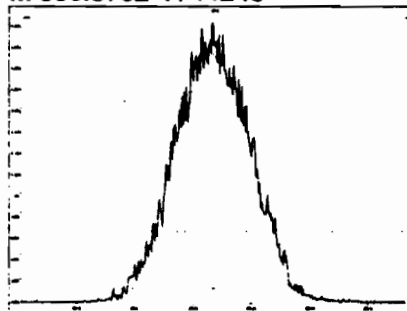


M 318.9792 R 11471

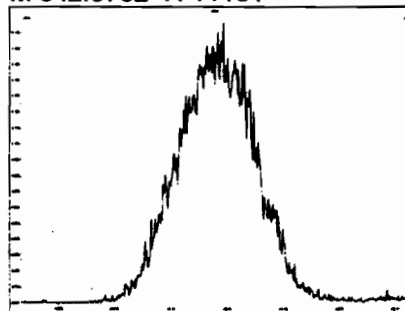


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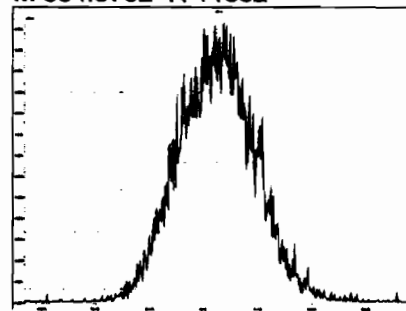
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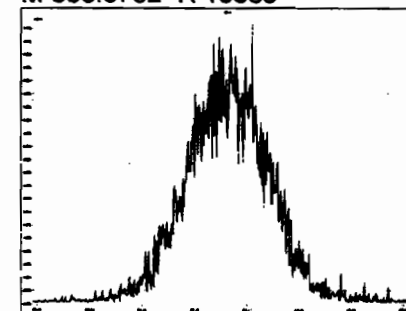
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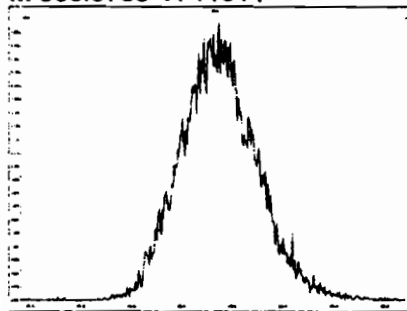
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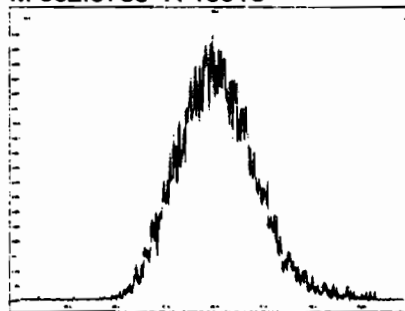
M 366.9792 R 10653



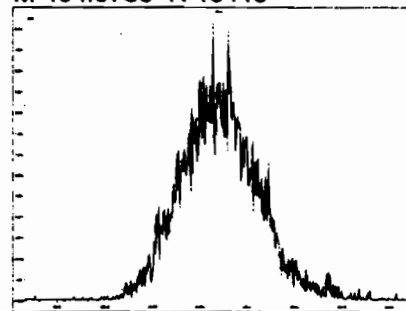
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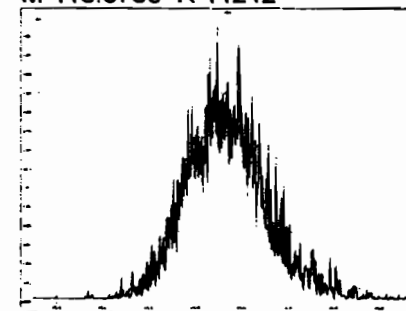
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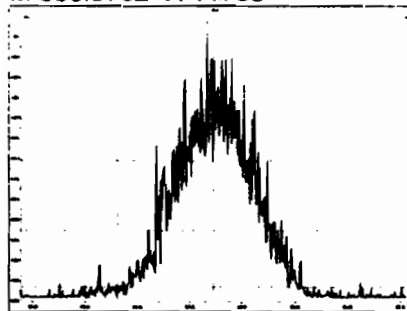
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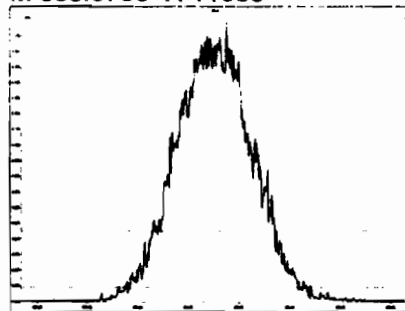
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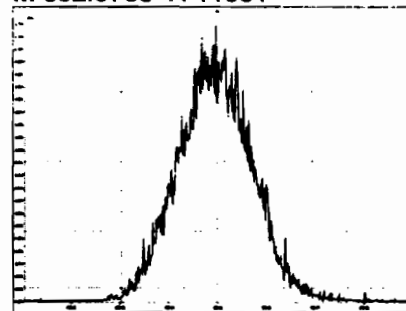
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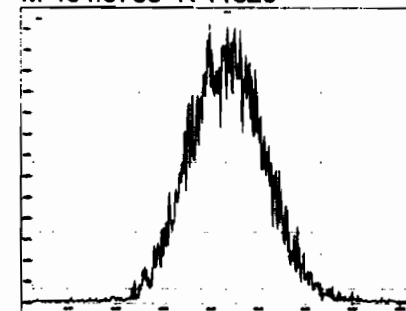
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M 392.9760 R 11061

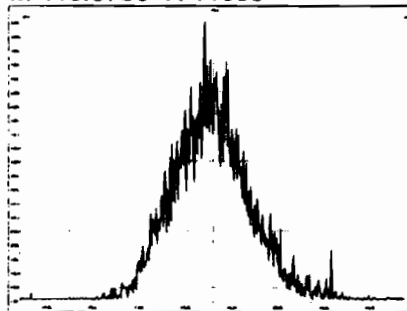


M 404.9760 R 11320

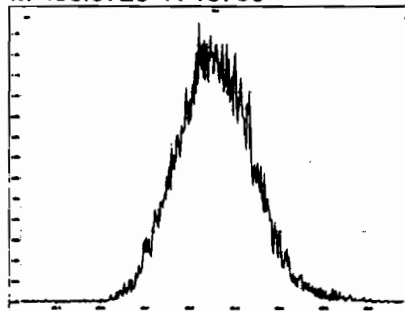


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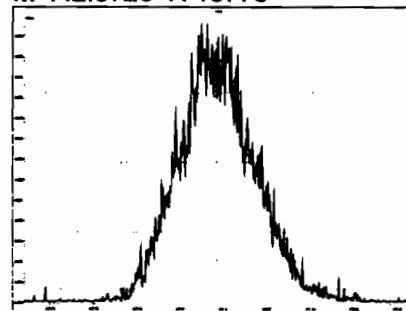
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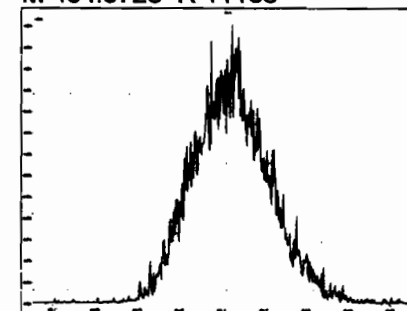
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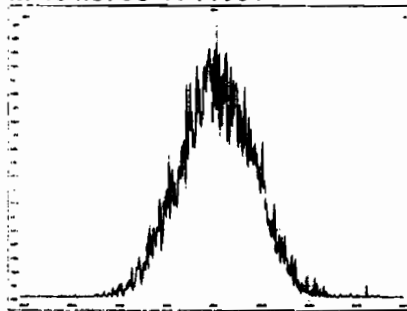
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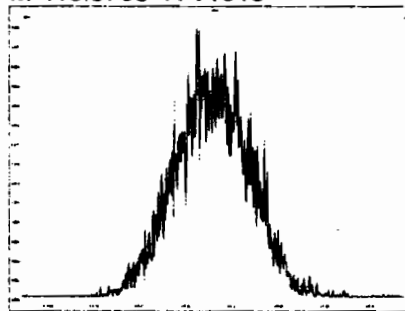
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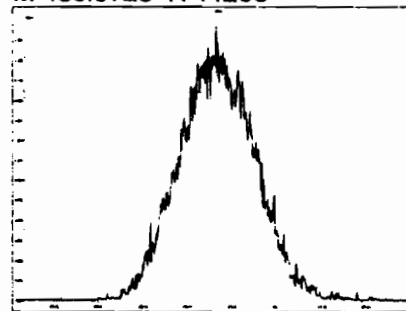
M 404.9760 R 11501



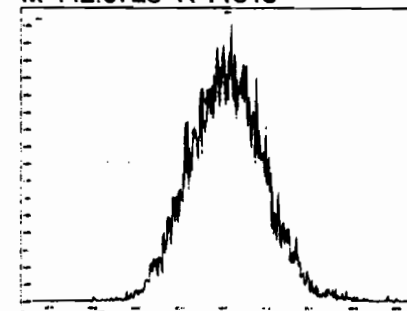
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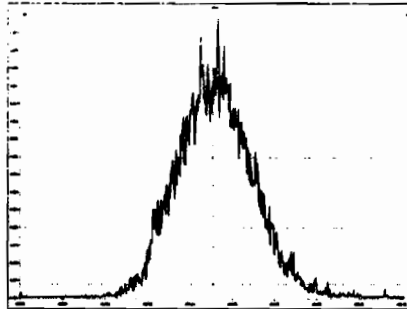
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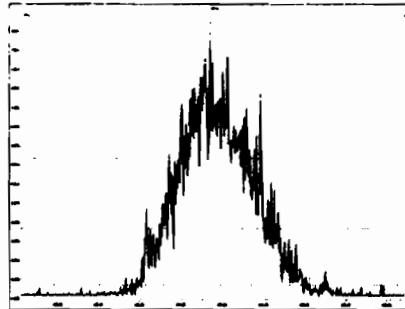
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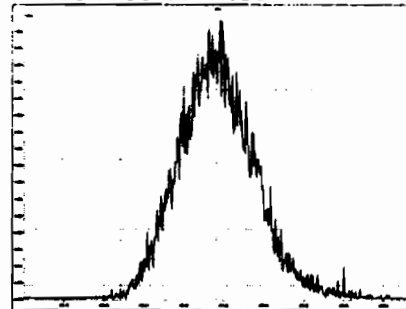
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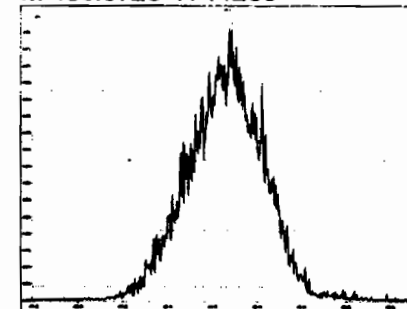
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M 480.9696 R 11135

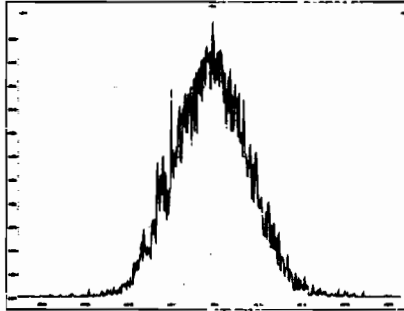


M 430.9728 R 11286

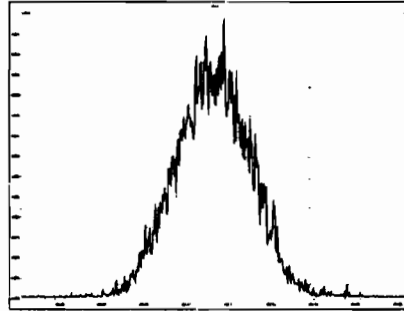


Printed: Monday, February 03, 2020 08:37:03 Pacific Standard Time

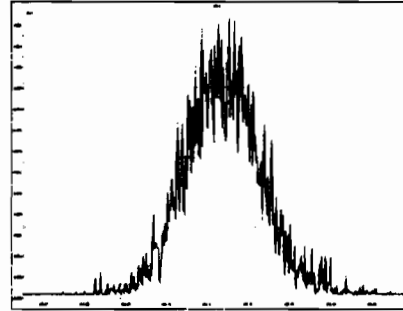
M 442.9728 R 11712



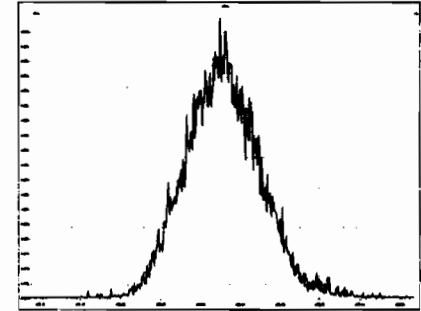
M 454.9728 R 11416



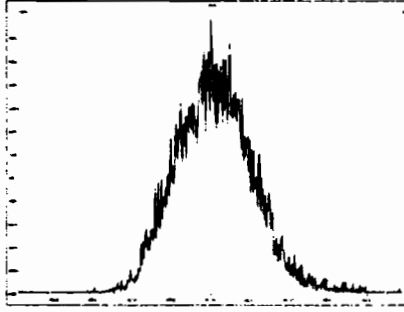
M 466.9728 R 12202



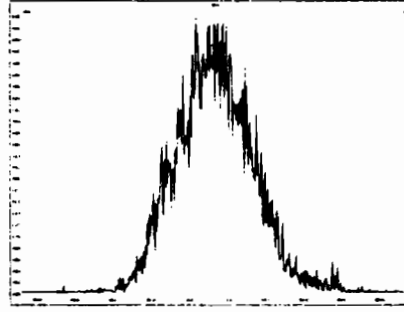
M 480.9696 R 11261



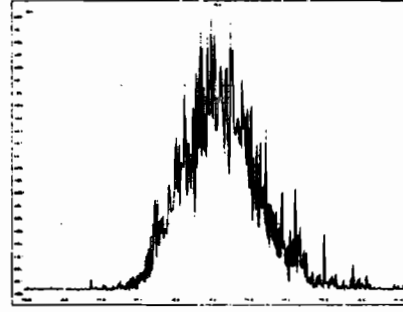
M 492.9696 R 11647



M 504.9696 R 12023



M 516.9697 R 11166



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200203R1-1

Reviewed By: C1 02/04/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> NA	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox"/> NA	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</u>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓			
- Samples within 12 hour clock?	<input type="checkbox"/> (Y)	<input type="checkbox"/> N			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-1.qld

Last Altered: Monday, February 03, 2020 12:52:30 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:07 Pacific Standard Time

GR 02/03/2020

CT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	rfy	REF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD-coe
1	1 2,3,7,8-TCDD	1.41e5	1.41e6	0.77	NO	0.988	25.72	25.71	NO	1.001	1.001	10.105	101	NO
2	2 1,2,3,7,8-PeCDD	4.93e5	1.08e6	0.63	NO	0.972	30.66	30.65	NO	1.001	1.001	47.018	94.0	NO
3	3 1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.22	NO	1.07	34.00	34.00	NO	1.000	1.000	49.782	99.6	NO
4	4 1,2,3,6,7,8-HxCDD	4.49e5	1.02e6	1.24	NO	0.921	34.08	34.10	NO	1.000	1.001	47.706	95.4	NO
5	5 1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.20	NO	0.918	34.39	34.38	NO	1.001	1.001	48.708	97.4	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.11e5	6.96e5	0.99	NO	0.923	37.92	37.93	NO	1.000	1.001	48.462	96.9	NO
7	7 OCDD	5.98e5	1.28e6	0.88	NO	0.975	40.92	40.93	NO	1.000	1.000	95.808	95.8	NO
8	8 2,3,7,8-TCDF	1.56e5	1.95e6	0.74	NO	0.802	24.83	24.82	NO	1.001	1.001	9.9303	99.3	NO
9	9 1,2,3,7,8-PeCDF	7.68e5	1.71e6	1.53	NO	0.907	29.38	29.37	NO	1.001	1.001	49.550	99.1	NO
10	10 2,3,4,7,8-PeCDF	7.68e5	1.65e6	1.51	NO	0.952	30.36	30.35	NO	1.001	1.001	48.833	97.7	NO
11	11 1,2,3,4,7,8-HxCDF	4.65e5	1.06e6	1.20	NO	0.862	33.11	33.14	NO	1.000	1.001	50.851	102	NO
12	12 1,2,3,6,7,8-HxCDF	5.26e5	1.20e6	1.19	NO	0.841	33.25	33.25	NO	1.000	1.000	52.153	104	NO
13	13 2,3,4,6,7,8-HxCDF	4.89e5	1.07e6	1.18	NO	0.898	33.85	33.83	NO	1.001	1.000	51.118	102	NO
14	14 1,2,3,7,8,9-HxCDF	3.94e5	9.19e5	1.19	NO	0.858	34.72	34.73	NO	1.000	1.000	50.046	100	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.40e5	7.91e5	0.96	NO	0.851	36.51	36.49	NO	1.001	1.001	50.495	101	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.77e5	5.50e5	0.96	NO	0.980	38.50	38.51	NO	1.000	1.000	51.463	103	NO
17	17 OCDF	6.08e5	1.49e6	0.87	NO	0.806	41.11	41.12	NO	1.000	1.000	101.40	101	NO
18	18 13C-2,3,7,8-TCDD	1.41e6	1.20e6	0.78	NO	1.20	25.69	25.69	NO	1.026	1.026	97.829	97.8	NO
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	1.20e6	0.63	NO	0.967	30.43	30.64	NO	1.215	1.223	92.868	92.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.15e5	1.04e6	1.28	NO	0.874	33.98	33.99	NO	1.014	1.014	89.715	89.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.02e6	1.04e6	1.29	NO	1.05	34.08	34.08	NO	1.017	1.017	93.926	93.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	9.26e5	1.04e6	1.25	NO	0.974	34.38	34.36	NO	1.026	1.025	91.466	91.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.96e5	1.04e6	1.04	NO	0.747	37.93	37.91	NO	1.132	1.131	89.661	89.7	NO
24	24 13C-OCDD	1.28e6	1.04e6	0.89	NO	0.707	40.81	40.92	NO	1.218	1.221	174.42	87.2	NO
25	25 13C-2,3,7,8-TCDF	1.95e6	1.84e6	0.78	NO	1.07	24.87	24.81	NO	0.993	0.990	99.503	99.5	NO
26	26 13C-1,2,3,7,8-PeCDF	1.71e6	1.84e6	1.59	NO	1.00	29.20	29.35	NO	1.166	1.172	92.557	92.6	NO
27	27 13C-2,3,4,7,8-PeCDF	1.65e6	1.84e6	1.54	NO	0.962	30.16	30.33	NO	1.204	1.211	93.217	93.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.06e6	1.04e6	0.51	NO	1.05	33.11	33.11	NO	0.988	0.988	97.207	97.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.20e6	1.04e6	0.51	NO	1.19	33.21	33.24	NO	0.991	0.992	97.000	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.07e6	1.04e6	0.51	NO	1.07	33.81	33.82	NO	1.009	1.009	96.201	96.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	9.19e5	1.04e6	0.51	NO	0.922	34.71	34.72	NO	1.036	1.036	95.844	95.8	NO

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-1.qld

Last Altered: Monday, February 03, 2020 12:52:30 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:07 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	Qty	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.91e5	1.04e6	0.43	NO	0.767	36.46	36.47	NO	1.088	1.088	99.243	99.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.50e5	1.04e6	0.42	NO	0.552	38.47	38.50	NO	1.148	1.149	95.828	95.8	NO
34	34 13C-OCDF	1.49e6	1.04e6	0.87	NO	0.789	41.05	41.11	NO	1.225	1.227	181.41	90.7	NO
35	35 37Cl-2,3,7,8-TCDD	1.40e5	1.20e6			1.18	25.72	25.71	NO	1.027	1.026	9.9328	99.3	NO
36	36 13C-1,2,3,4-TCDD	1.20e6	1.20e6	0.79	NO	1.00	25.08	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.84e6	1.84e6	0.79	NO	1.00	23.42	23.39	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.04e6	1.04e6	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES
39	39 Total Tetra-Dioxins		1.41e6			0.988	24.62		NO	0.000		85.135		NO
40	40 Total Penta-Dioxins		1.08e6			0.972	29.96		NO	0.000		209.86		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		245.55		NO
42	42 Total Hepta-Dioxins		6.96e5			0.923	37.64		NO	0.000		133.39		NO
43	43 Total Tetra-Furans		1.95e6			0.802	23.61		NO	0.000		47.564		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		167.68		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		287.38		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		101.96		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:45 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:55 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.74
2	1,2,8,9-TCDD (Last)	26.66
3	1,2,4,7,9-PeCDD (First)	28.44
4	1,2,3,8,9-PeCDD (Last)	31.03
5	1,2,4,6,7,9-HxCDD (First)	32.51
6	1,2,3,7,8,9-HxCDD (Last)	34.38
7	1,2,3,4,6,7,9-HpCDD (First)	36.87
8	1,2,3,4,6,7,8-HpCDD (Last)	37.93
9	1,3,6,8-TCDF (First)	19.64
10	1,2,8,9-TCDF (Last)	26.81
11	1,3,4,6,8-PeCDF (First)	26.77
12	1,2,3,8,9-PeCDF (Last)	31.28
13	1,2,3,4,6,8-HxCDF (First)	31.96
14	1,2,3,7,8,9-HxCDF (Last)	34.73
15	1,2,3,4,6,7,8-HpCDF (First)	36.49
16	1,2,3,4,7,8,9-HpCDF (Last)	38.51

Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 09:05:13 Pacific Standard Time

Printed: Tuesday, February 04, 2020 09:12:56 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

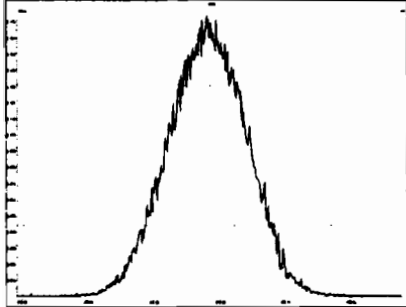
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200203R1_1	ST200203R1_1 1613 CS3 19L2305	03-Feb-20	11:58:10
2	200203R1_2	B0A0027-BS1 OPR 10	03-Feb-20	12:46:00
3	200203R1_3	B0A0074-BS1 OPR 10	03-Feb-20	13:32:35
4	200203R1_4	SOLVENT BLANK	03-Feb-20	14:23:54
5	200203R1_5	B0A0027-BLK1 Method Blank 10	03-Feb-20	15:10:51
6	200203R1_6	B0A0074-BLK1 Method Blank 10	03-Feb-20	15:57:49
7	200203R1_7	1903740-01 PDI-031SC-B-00-02-191017 17.45	03-Feb-20	16:44:54
8	200203R1_8	1903740-02 PDI-031SC-B-02-04-191017 15.52	03-Feb-20	17:31:54
9	200203R1_9	1903740-03 PDI-031SC-B-04-06-191017 11.79	03-Feb-20	18:18:50
10	200203R1_10	1903740-04 PDI-031SC-B-06-08-191017 12.8	03-Feb-20	19:05:46
11	200203R1_11	1903654-07@2X PDI-075SC-B-04-06-191013 ...	03-Feb-20	19:52:45
12	200203R1_12	B0A0056-DUP1@10X Duplicate 16.6	03-Feb-20	20:39:45
13	200203R1_13	1903827-01@5X PDI-057SC-B-00-02-191023 ...	03-Feb-20	21:26:43
14	200203R1_14	1903654-01@5X PDI-073SC-B-00-02-191013 ...	03-Feb-20	22:13:42
15	200203R1_15	1903654-01@25X PDI-073SC-B-00-02-19101...	03-Feb-20	23:00:42

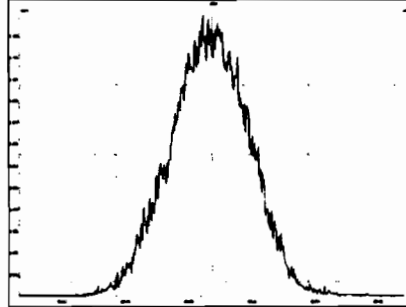
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:52:54 Pacific Standard Time

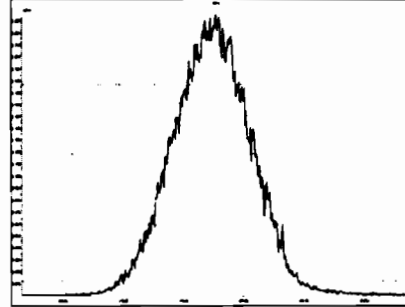
M 292.9824 R 10686



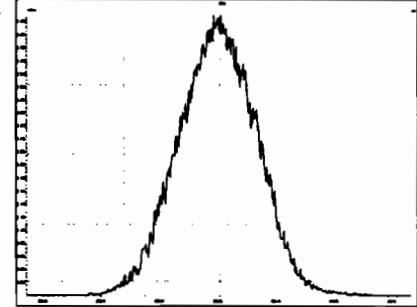
M 304.9824 R 10776



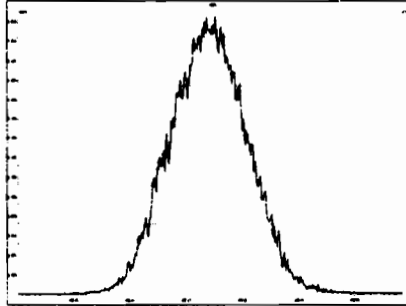
M 318.9792 R 10821



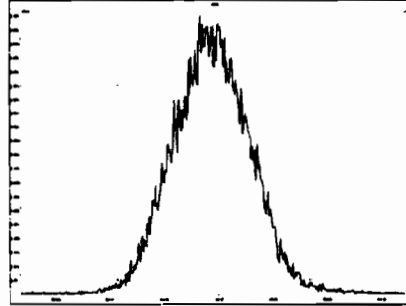
M 330.9792 R 10866



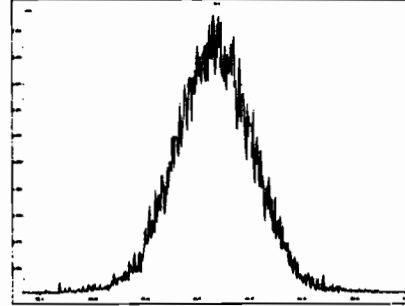
M 342.9792 R 10965



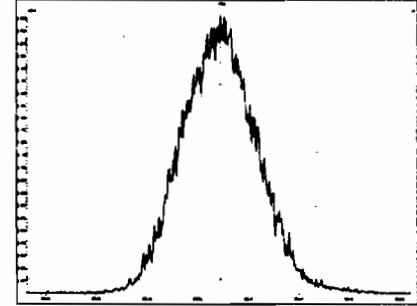
M 354.9792 R 11060



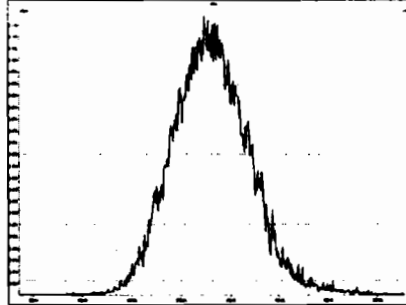
M 366.9792 R 10594



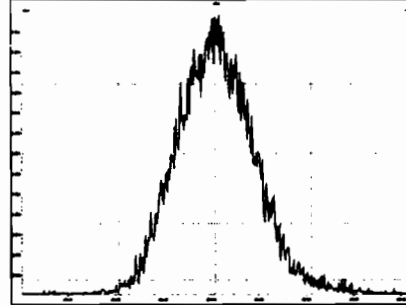
M 380.9760 R 11210



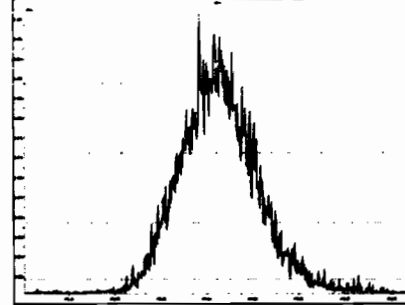
M 392.9760 R 11113



M 404.9760 R 11261



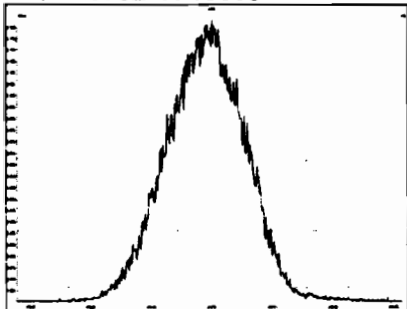
M 416.9760 R 11110



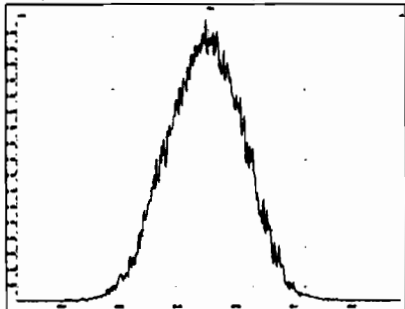
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:53:42 Pacific Standard Time

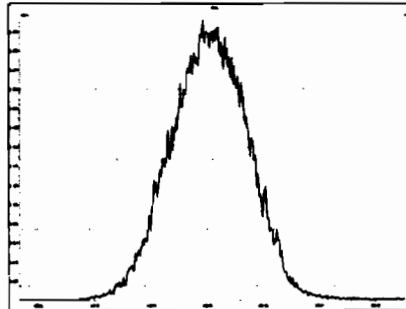
M 318.9792 R 10869



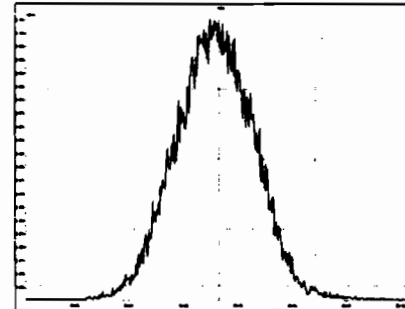
M 330.9792 R 11113



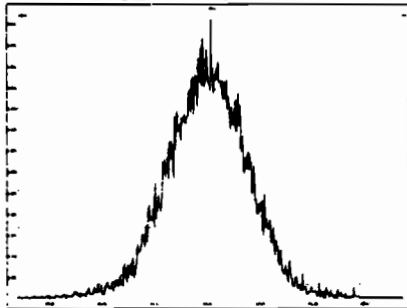
M 342.9792 R 10461



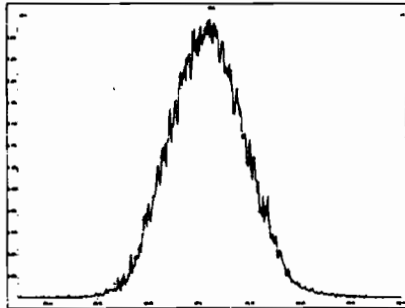
M 354.9792 R 10821



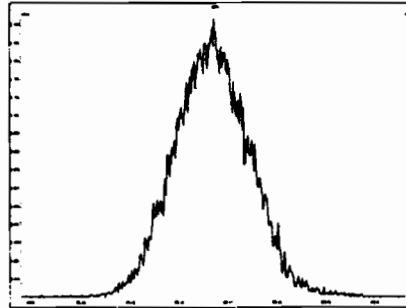
M 366.9792 R 10332



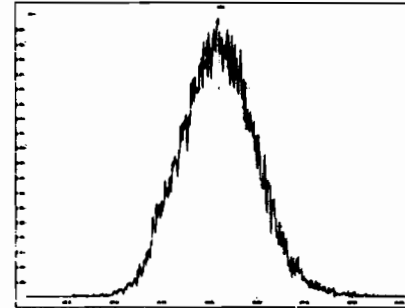
M 380.9760 R 10965



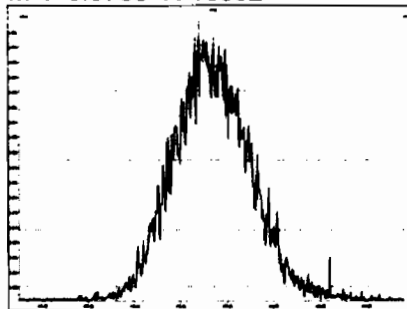
M 392.9760 R 11362



M 404.9760 R 11258



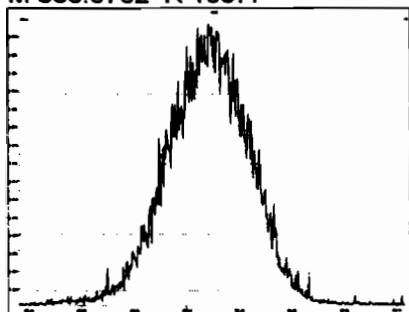
M 416.9760 R 10592



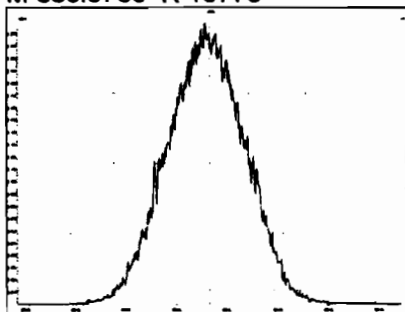
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:55:02 Pacific Standard Time

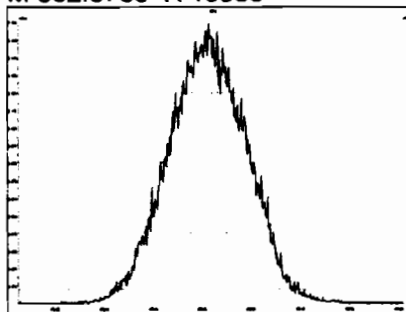
M 366.9792 R 10077



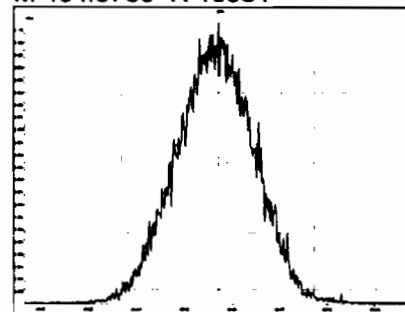
M 380.9760 R 10776



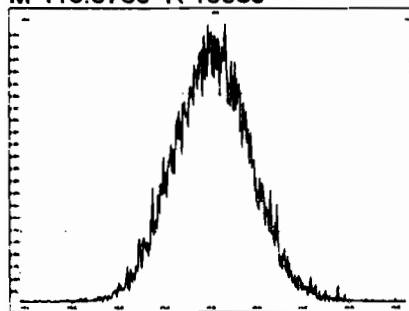
M 392.9760 R 10686



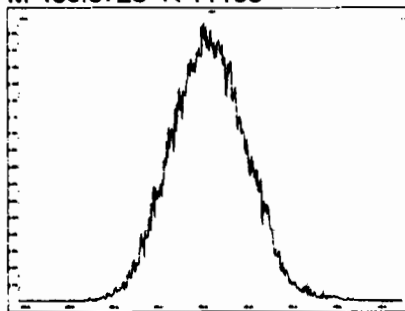
M 404.9760 R 10961



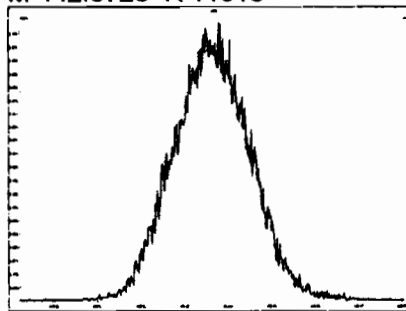
M 416.9760 R 10080



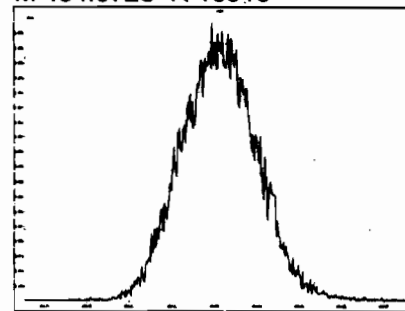
M 430.9728 R 11158



M 442.9728 R 11013



M 454.9728 R 10916



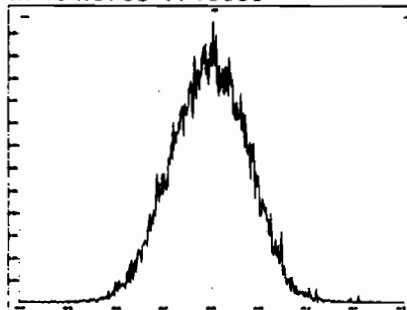
Experiment Calibration Report

MassLynx 4.1 SCN815

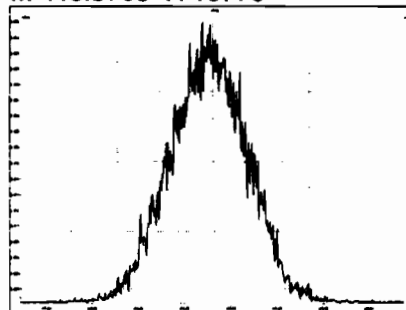
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:55:32 Pacific Standard Time

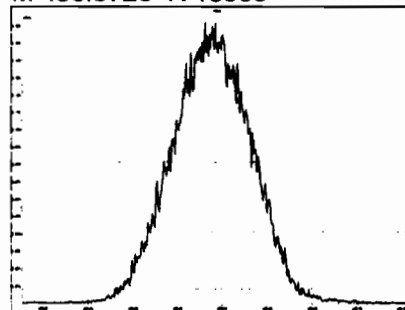
M 404.9760 R 10685



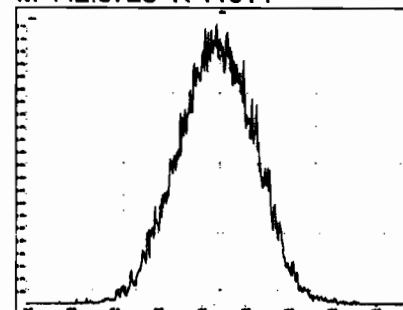
M 416.9760 R 10776



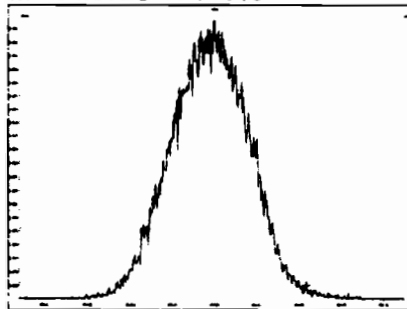
M 430.9728 R 10963



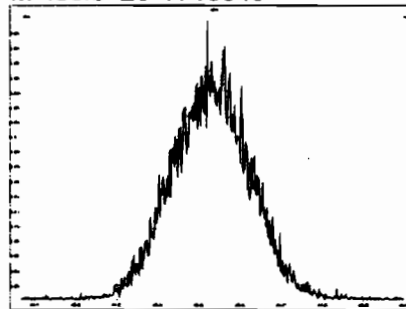
M 442.9728 R 11014



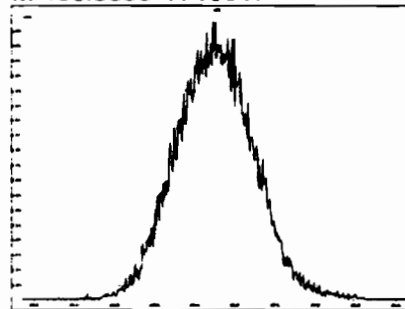
M 454.9728 R 11110



M 466.9728 R 10640



M 480.9696 R 10917



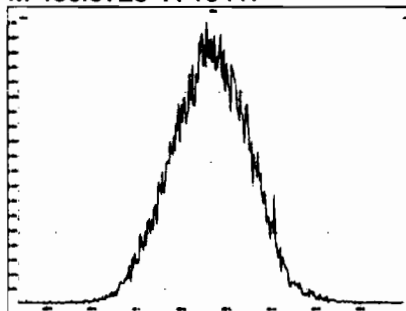
Experiment Calibration Report

MassLynx 4.1 SCN815

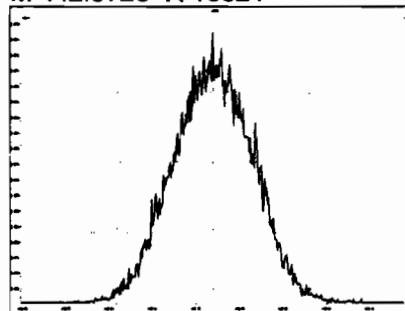
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:57:21 Pacific Standard Time

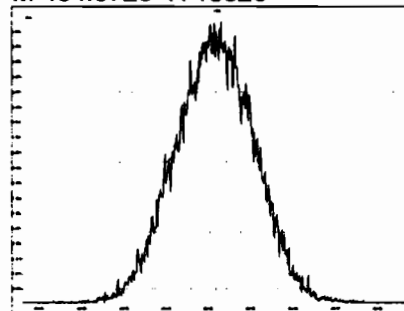
M 430.9728 R 10417



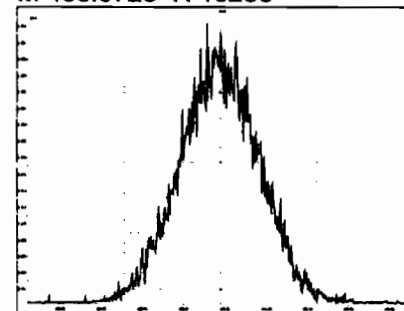
M 442.9728 R 10821



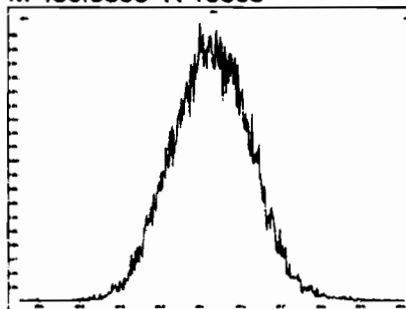
M 454.9728 R 10823



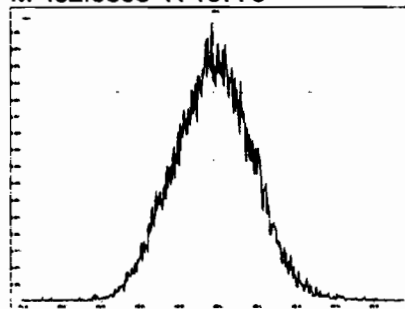
M 466.9728 R 10288



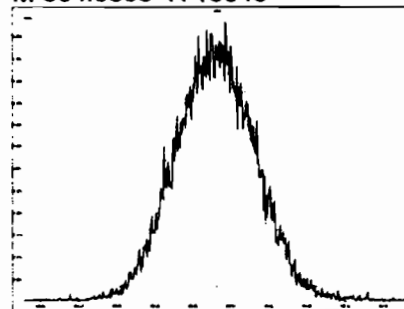
M 480.9696 R 10868



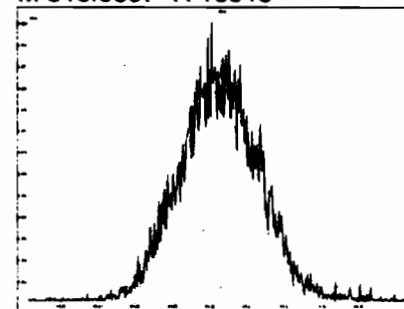
M 492.9696 R 10776



M 504.9696 R 10040



M 516.9697 R 10915



Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:45 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:55 Pacific Standard Time

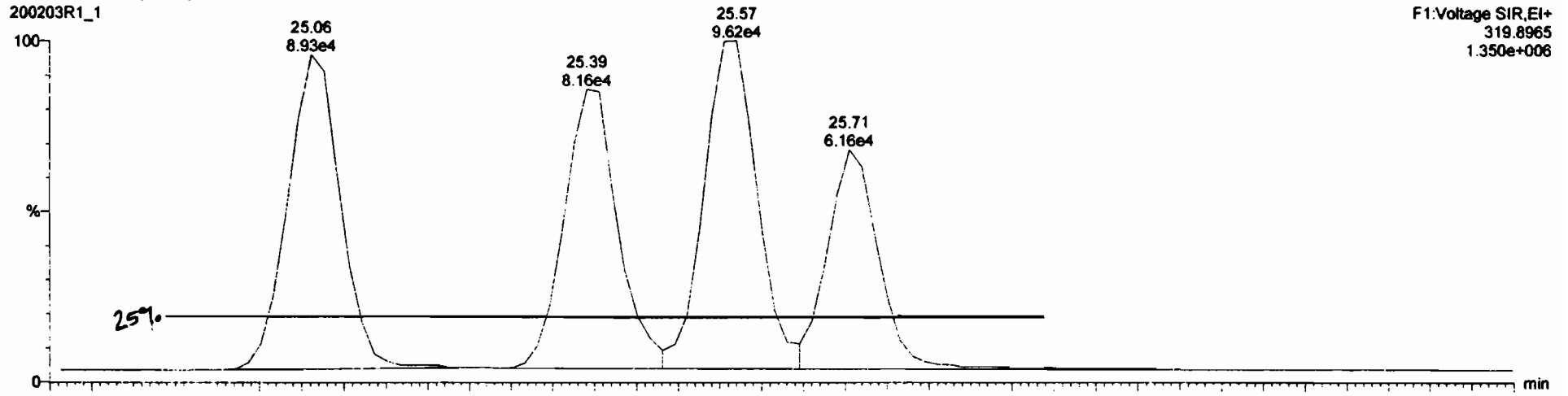
GRB 02/03/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

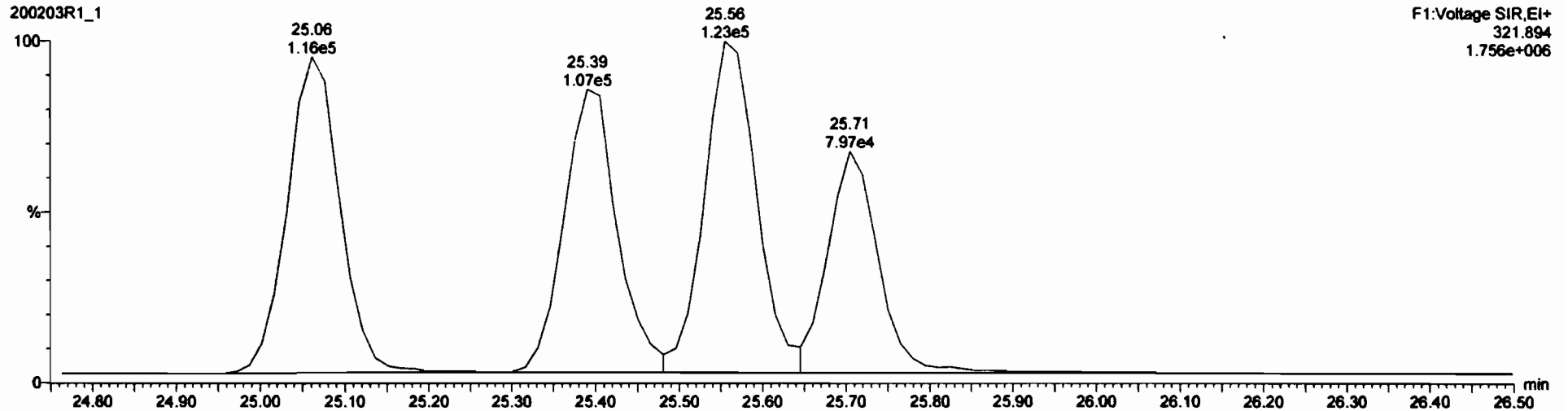
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200203R1_1



200203R1_1



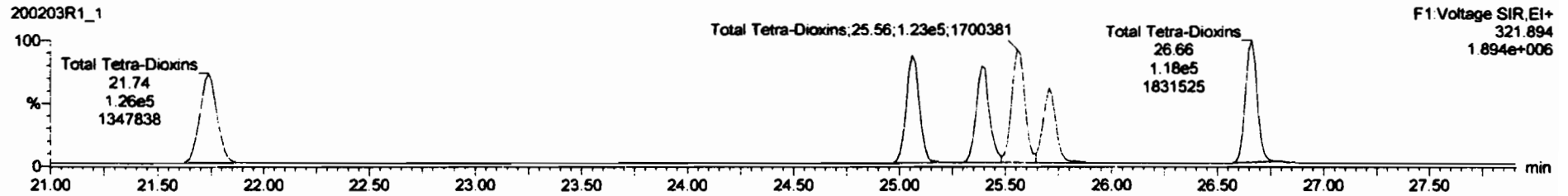
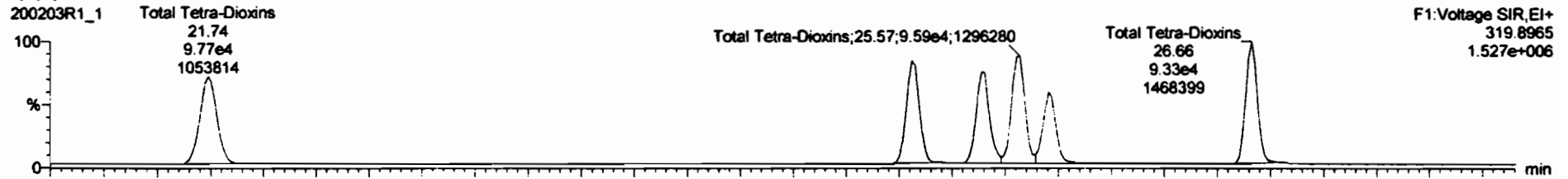
Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

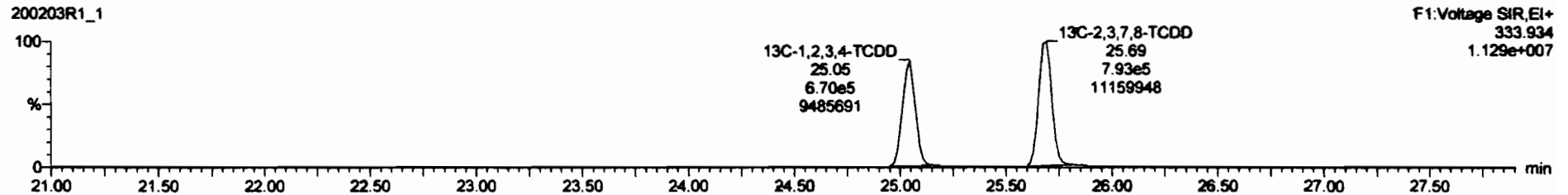
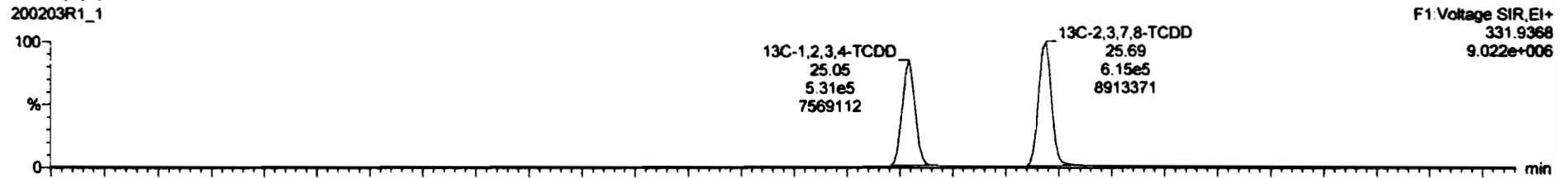
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



Dataset: Untitled

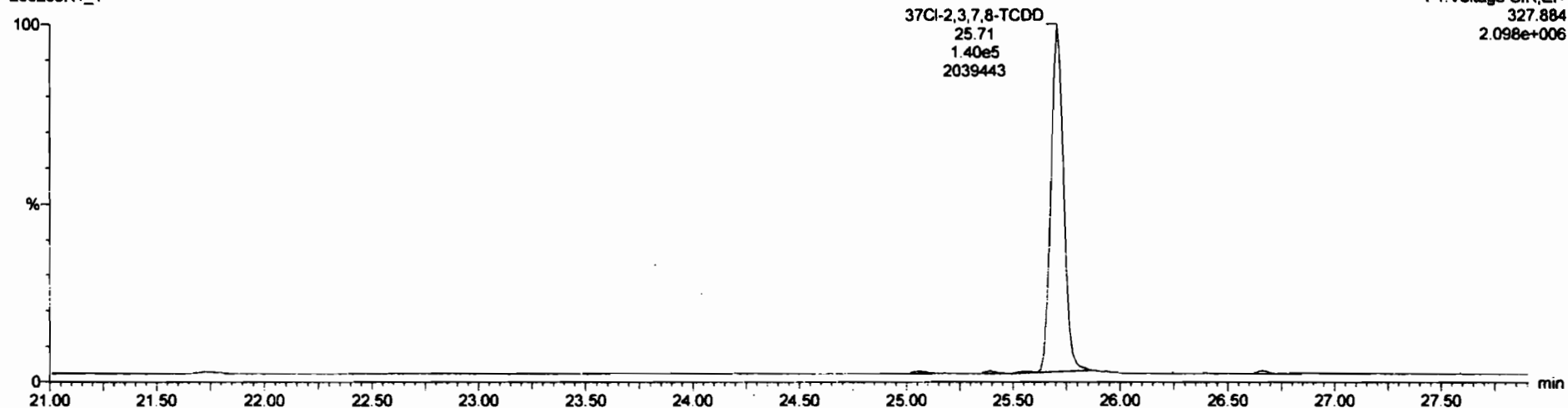
Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

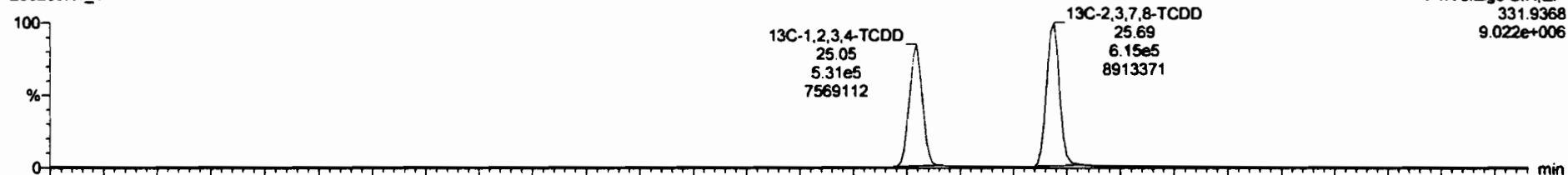
37Cl-2,3,7,8-TCDD

200203R1_1

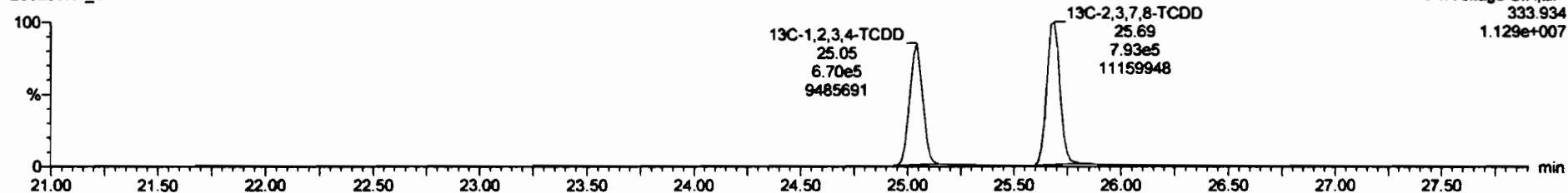


13C-1,2,3,4-TCDD

200203R1_1



200203R1_1



Dataset: Untitled

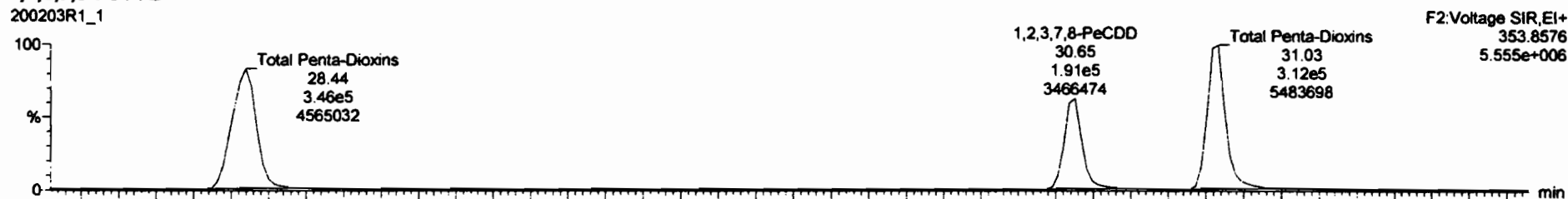
Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

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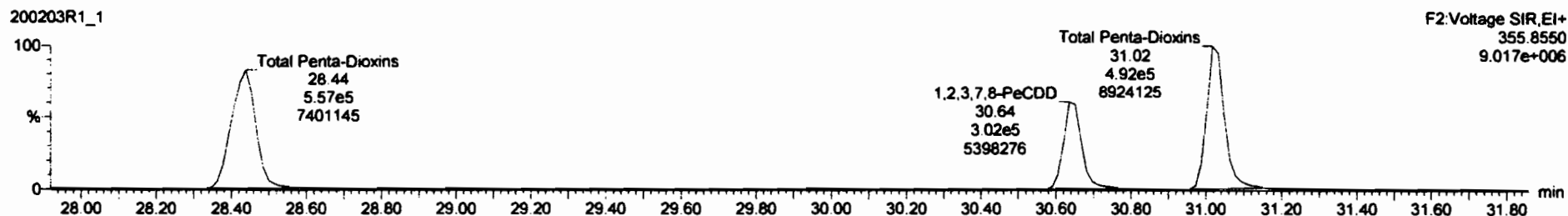
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1,2,3,7,8-PeCDD

200203R1_1



200203R1_1

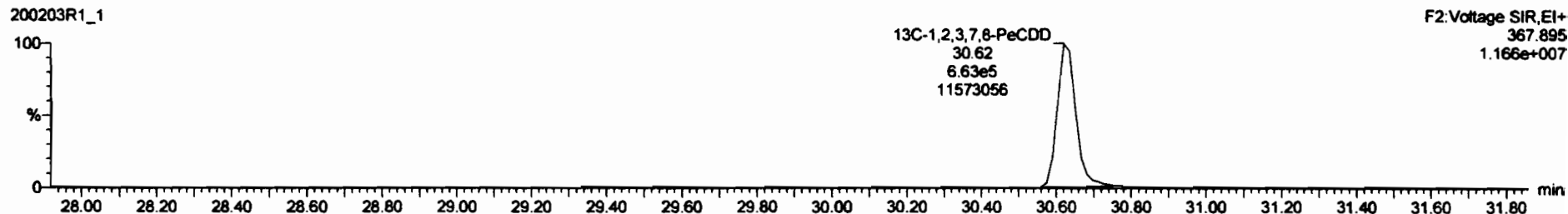


13C-1,2,3,7,8-PeCDD

200203R1_1



200203R1_1



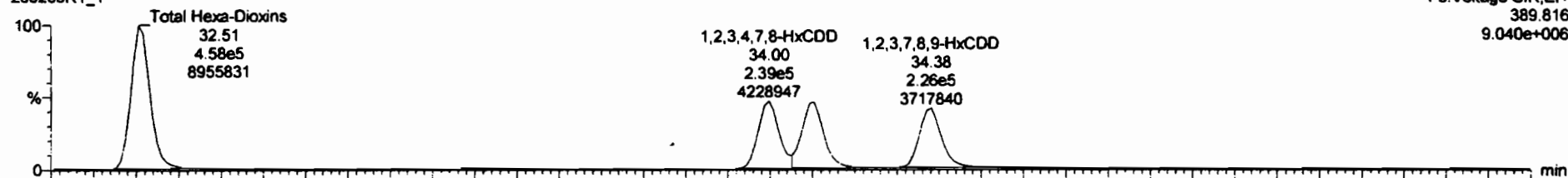
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Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

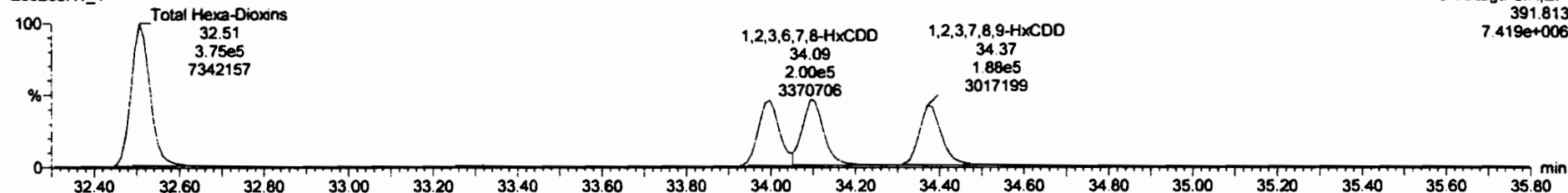
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1,2,3,4,7,8-HxCDD

200203R1_1

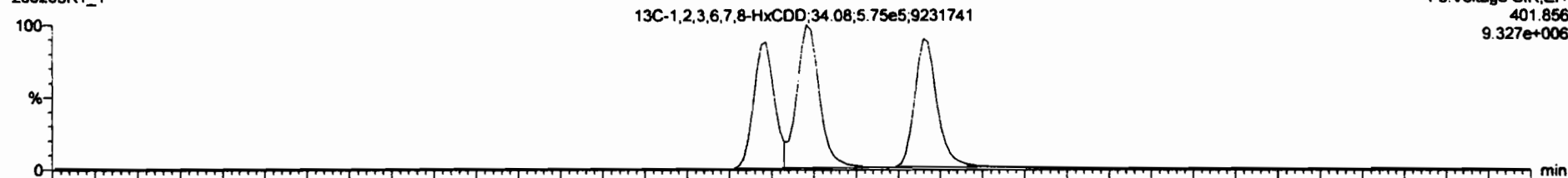


200203R1_1

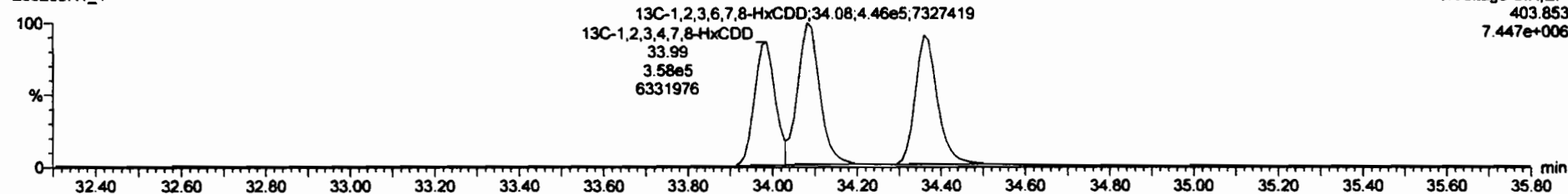


13C-1,2,3,4,7,8-HxCDD

200203R1_1



200203R1_1



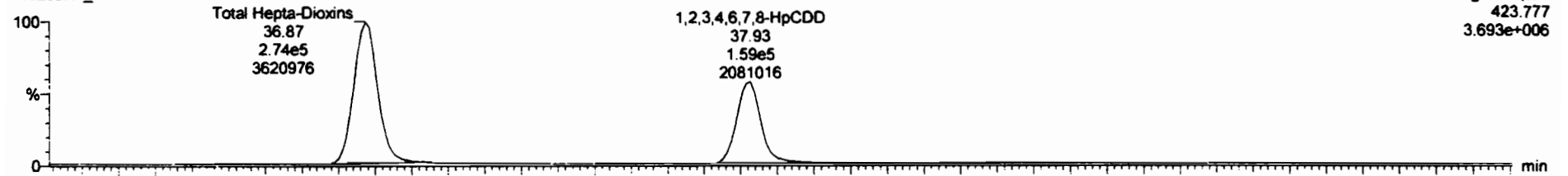
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Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

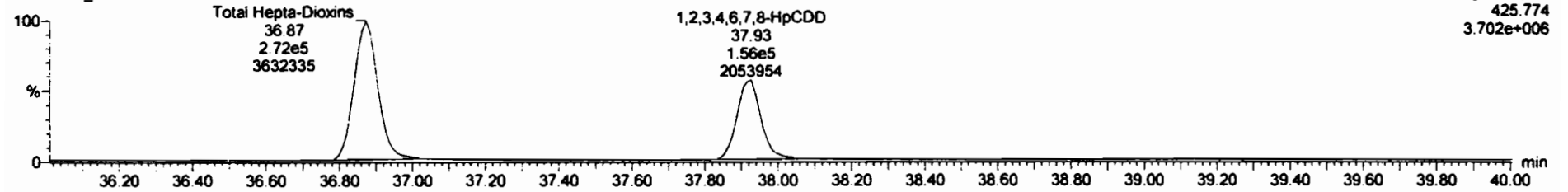
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,4,6,7,8-HpCDD

200203R1_1

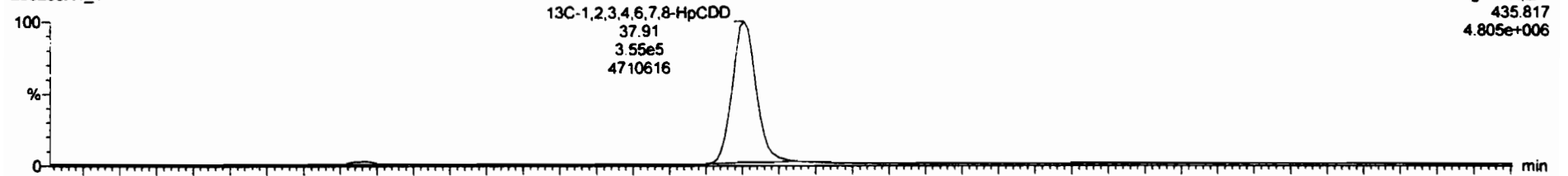


200203R1_1

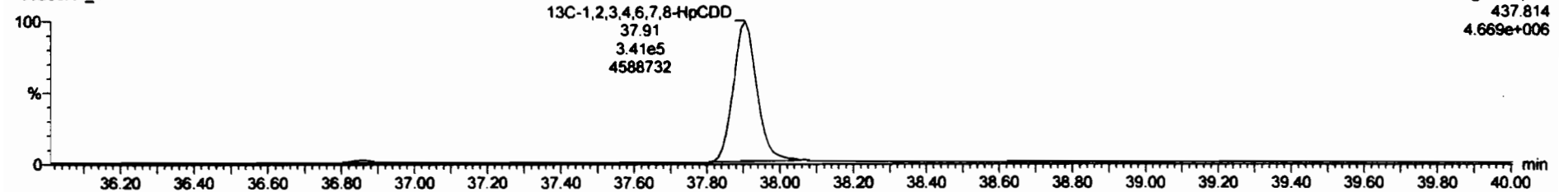


13C-1,2,3,4,6,7,8-HpCDD

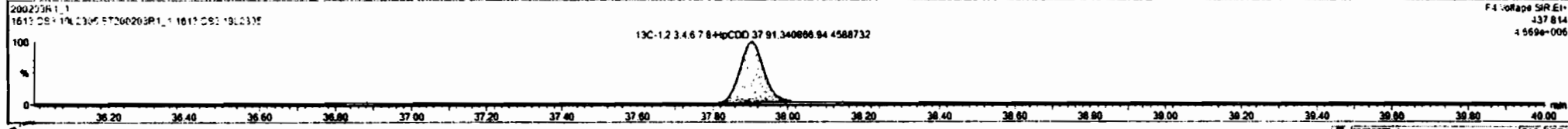
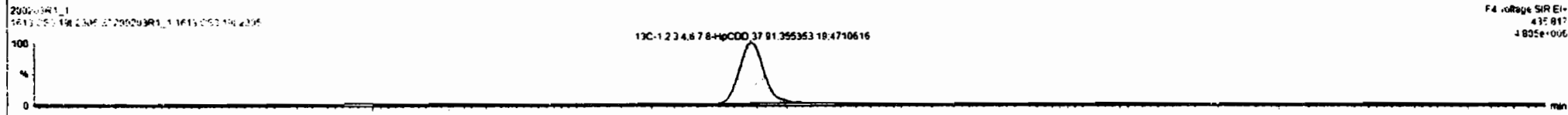
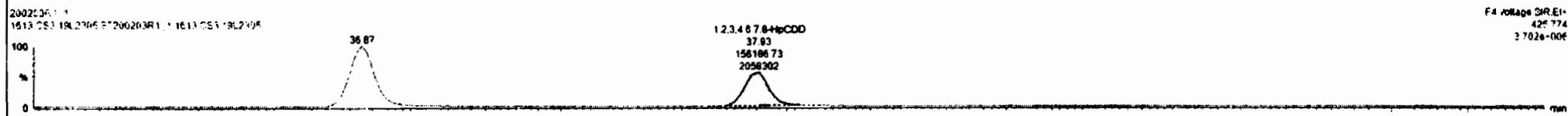
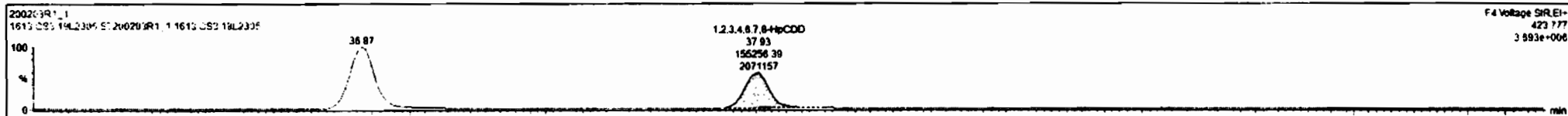
200203R1_1



200203R1_1



#	Name	Area	Height	Width	Skew	Kurt	NO	Area%	Height%	Width%	Skew%	Kurt%	NO	Area%	Height%	Width%	Skew%	Kurt%	NO
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9981	25.72	25.71	NO	1.001	1.001	101	101	NO	NO	NO	NO	NO
2	1,2,3,7,8-PeCDD	4.92e5	1.06e5	0.63	0.63	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.0	94.0	NO	NO	NO	NO	NO
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0788	34.88	34.80	NO	1.000	1.000	48.8	98.6	NO	NO	NO	NO	NO
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO	NO	NO	NO	NO
5	1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.38	34.38	NO	1.001	1.001	48.7	97.4	NO	NO	NO	NO	NO
7	OCDD	5.08e5	1.28e5	0.88	0.88	NO	0.8748	40.92	40.83	NO	1.000	1.000	96.8	96.8	NO	NO	NO	NO	NO
8	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.8820	24.83	24.82	NO	1.001	1.001	9.93	90.3	NO	NO	NO	NO	NO
9	1,2,3,7,8-PeCDF	7.88e5	1.74e5	1.55	1.53	NO	0.9874	28.38	28.37	NO	1.001	1.001	40.6	99.1	NO	NO	NO	NO	NO
10	2,3,4,7,8-PeCDF	7.88e5	1.65e5	1.55	1.51	NO	0.9516	30.36	30.35	NO	1.001	1.001	48.8	97.7	NO	NO	NO	NO	NO
11	1,2,3,4,7,8-HxCDF	4.85e5	1.06e5	1.24	1.20	NO	0.9623	33.11	33.14	NO	1.000	1.001	50.9	102	NO	NO	NO	NO	NO
12	1,2,3,6,7,8-HxCDF	5.28e5	1.20e5	1.24	1.19	NO	0.9414	33.25	33.25	NO	1.000	1.000	52.2	104	NO	NO	NO	NO	NO
13	2,3,4,6,7,8-HxCDF	4.88e5	1.07e5	1.24	1.18	NO	0.8862	33.85	33.83	NO	1.001	1.000	51.1	102	NO	NO	NO	NO	NO
14	1,2,3,7,8,9-HxCDF	3.94e5	8.19e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100	NO	NO	NO	NO	NO
15	1,2,3,4,6,7,8-HxCDF	3.48e5	7.91e5	1.04	0.88	NO	0.8511	36.51	36.48	NO	1.001	1.001	50.5	101	NO	NO	NO	NO	NO
16	1,2,3,4,7,8,9-HxCDF	2.77e5	5.58e5	1.04	0.88	NO	0.9798	36.58	36.51	NO	1.000	1.000	51.5	103	NO	NO	NO	NO	NO
17	OCDF	6.08e5	1.48e5	0.88	0.87	NO	0.8055	41.11	41.12	NO	1.000	1.000	101	101	NO	NO	NO	NO	NO



Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

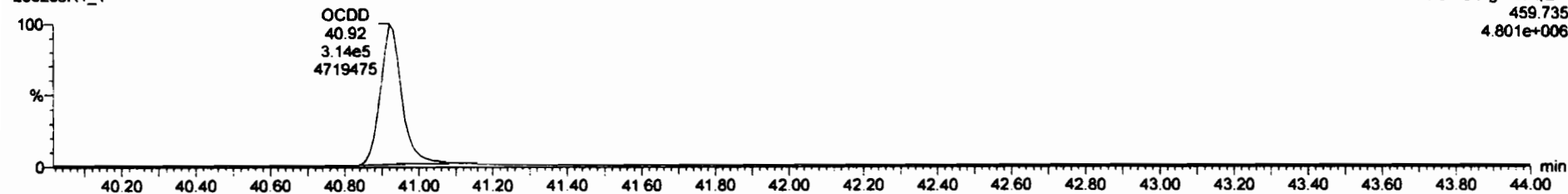
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDD

200203R1_1



200203R1_1

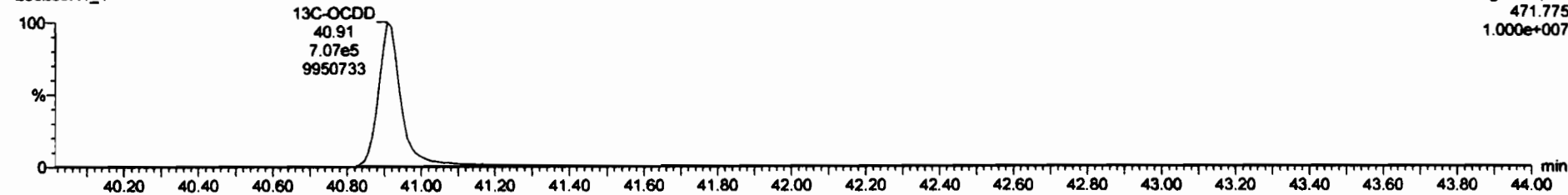


13C-OCDD

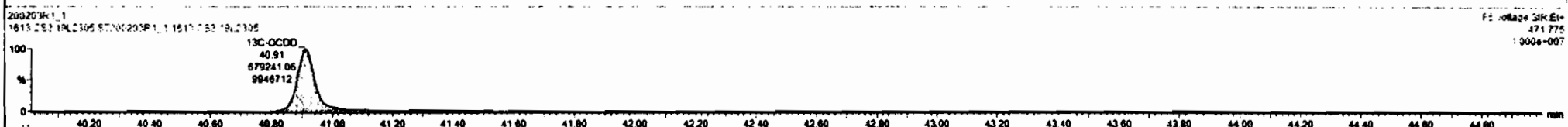
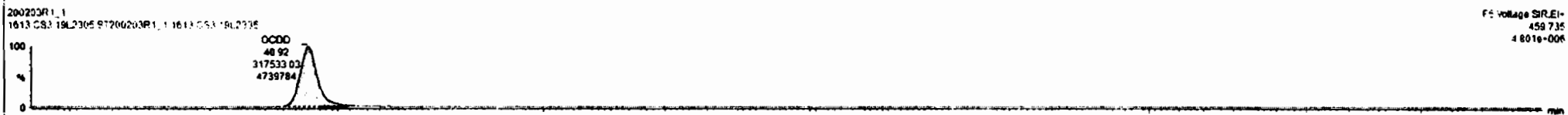
200203R1_1



200203R1_1



Comp	RT-Comp	RT-Name	RT-Pos	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off	RT-Off
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.8881	25.72	25.71	NO	1.001	1.001	10.1	101	NO			
2	1,2,3,7,8-PeCDD	4.93e5	1.08e5	0.63	0.63	NO	0.9723	30.66	30.65	NO	1.001	1.001	47.0	94.0	NO			
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0708	34.00	34.00	NO	1.000	1.000	49.8	99.6	NO			
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO			
5	1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.38	34.38	NO	1.001	1.001	48.7	97.4	NO			
6	1,2,3,4,6,7,8-HpCDD	3.11e5	6.98e5	1.04	0.98	NO	0.9221	37.62	37.63	NO	1.000	1.001	46.5	96.9	NO			
7	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.8820	24.63	24.62	NO	1.001	1.001	9.93	99.3	NO			
8	1,2,3,7,8-PeCDF	7.88e5	1.71e5	1.55	1.53	NO	0.9874	29.36	29.37	NO	1.001	1.001	49.6	99.1	NO			
9	2,3,4,7,8-PeCDF	7.88e5	1.65e5	1.55	1.51	NO	0.8616	30.36	30.36	NO	1.001	1.001	46.6	97.7	NO			
10	1,2,3,4,7,8-HxCDF	4.85e5	1.86e5	1.24	1.20	NO	0.8823	33.11	33.14	NO	1.000	1.001	50.9	102	NO			
11	1,2,3,6,7,8-HxCDF	5.28e5	1.20e5	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO			
12	2,3,4,6,7,8-HxCDF	4.88e5	1.07e5	1.24	1.18	NO	0.8842	33.85	33.85	NO	1.001	1.000	51.1	102	NO			
13	1,2,3,7,8,9-HxCDF	3.94e5	9.15e5	1.24	1.19	NO	0.8578	34.72	34.72	NO	1.000	1.000	50.0	100	NO			
14	1,2,3,4,6,7,8-HpCDF	3.40e5	7.81e5	1.04	0.96	NO	0.8511	36.51	36.49	NO	1.001	1.001	50.5	101	NO			
15	1,2,3,4,7,8,9-HpCDF	2.77e5	5.50e5	1.04	0.98	NO	0.9798	38.50	38.51	NO	1.000	1.000	51.5	103	NO			
16	OCDF	6.08e5	1.48e5	0.88	0.87	NO	0.8852	41.11	41.12	NO	1.000	1.000	101	101	NO			

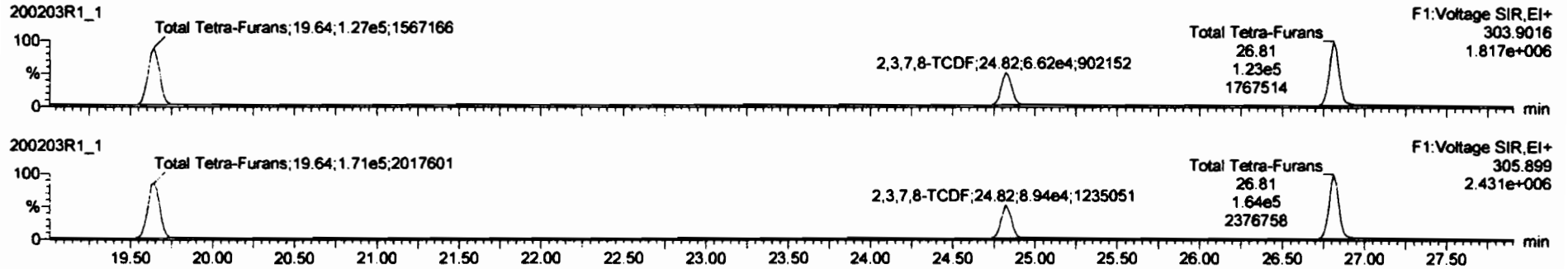


Dataset: Untitled

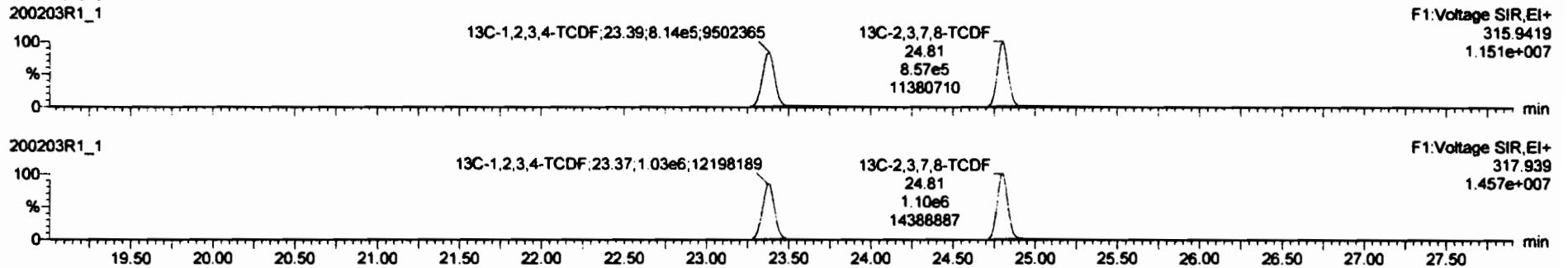
Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

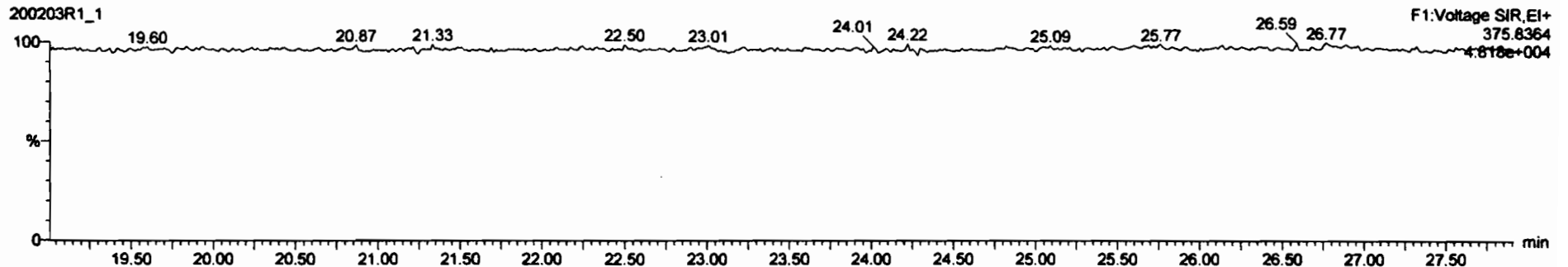
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



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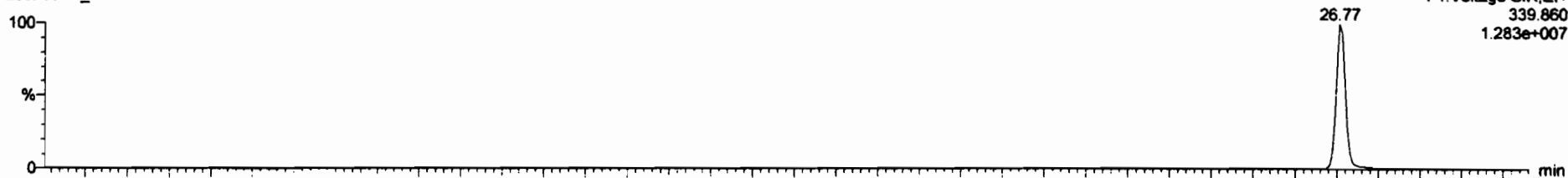
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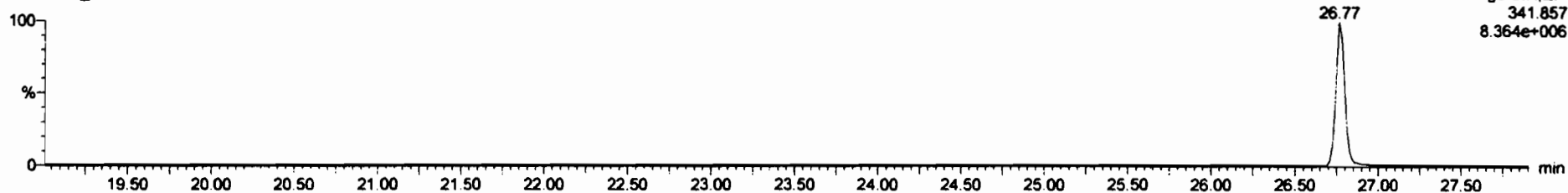
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200203R1_1

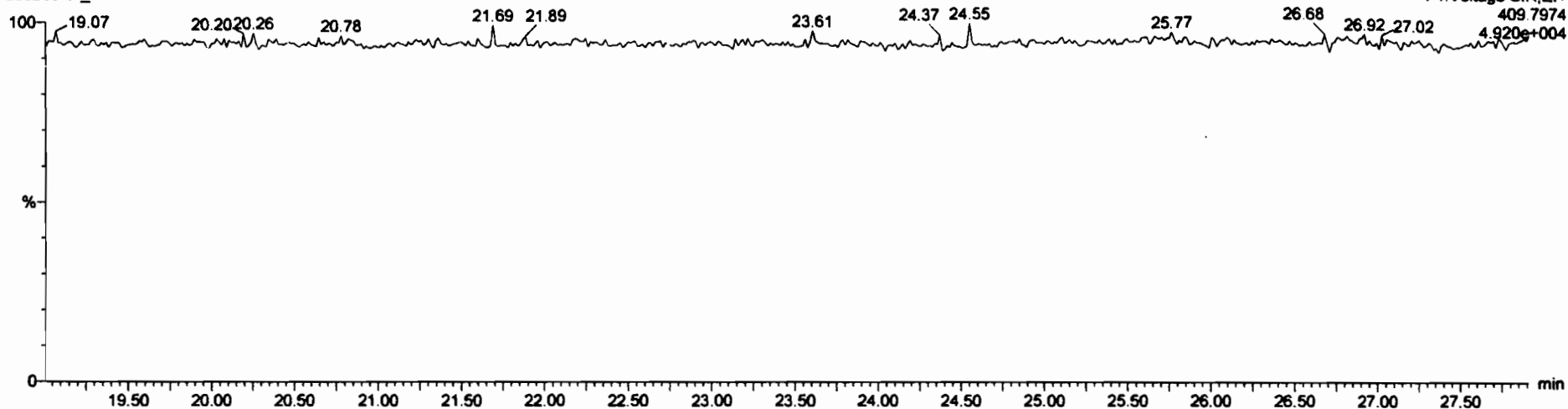


200203R1_1



DPE6

200203R1_1



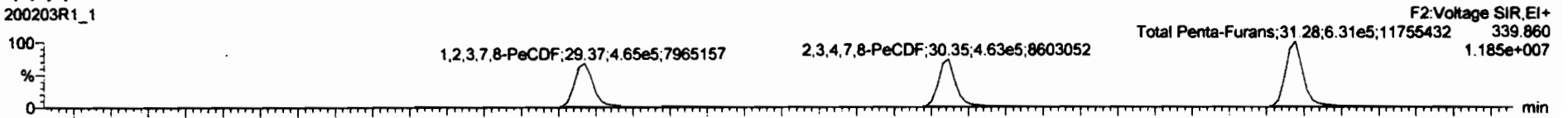
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Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

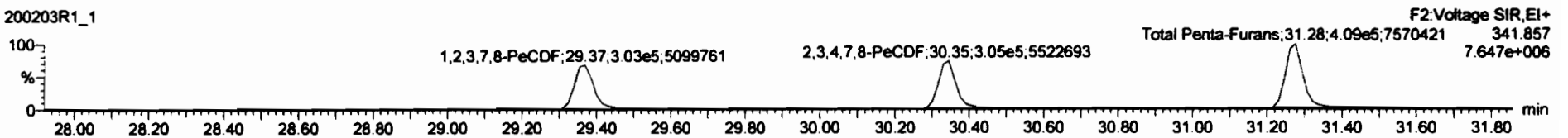
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1,2,3,7,8-PeCDF

200203R1_1

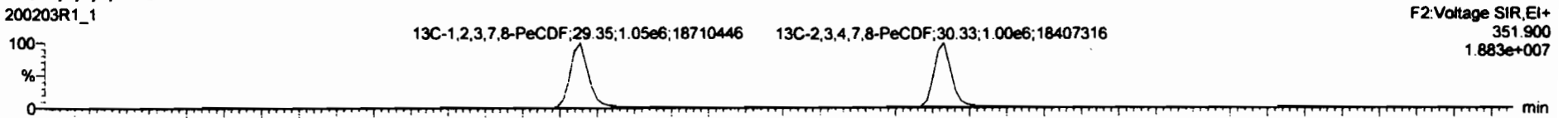


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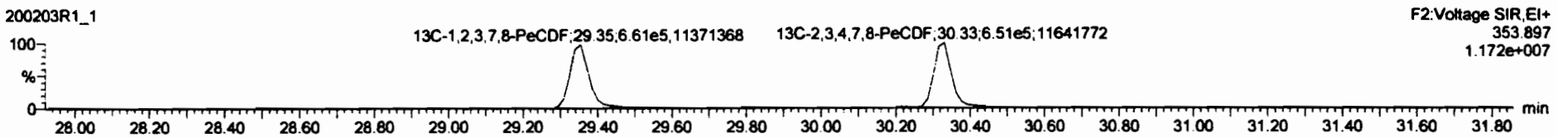


13C-1,2,3,7,8-PeCDF

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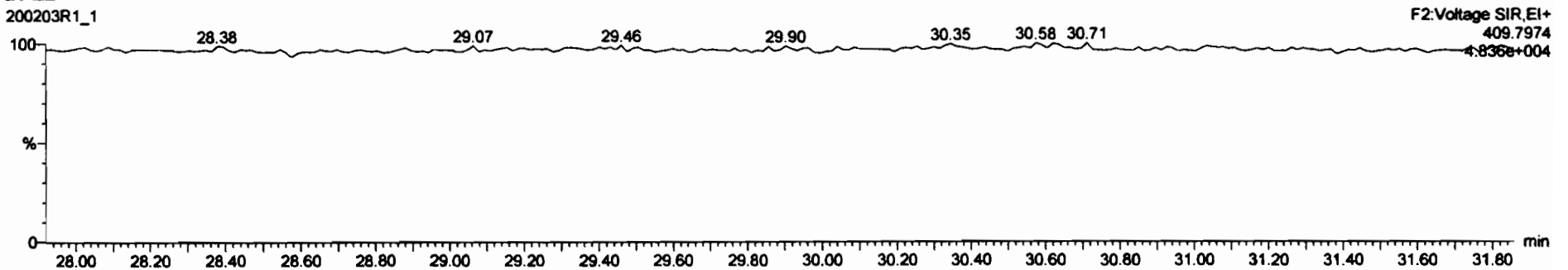


200203R1_1



DPE2

200203R1_1



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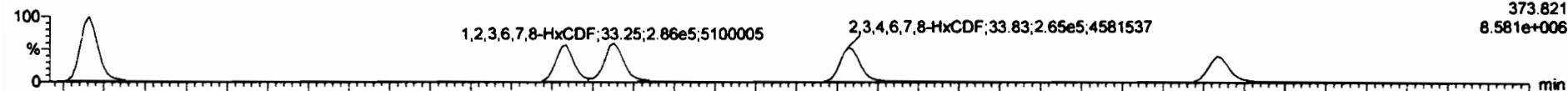
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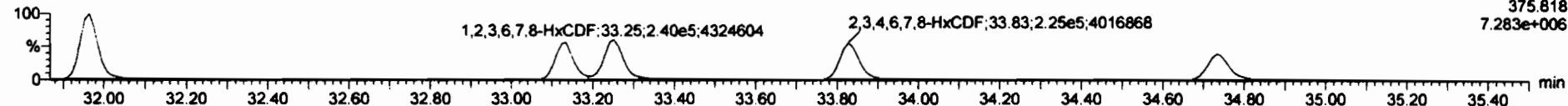
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1,2,3,4,7,8-HxCDF

200203R1_1

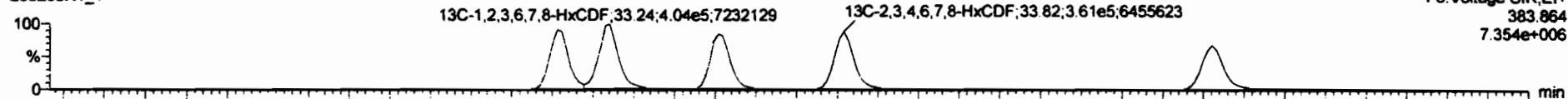


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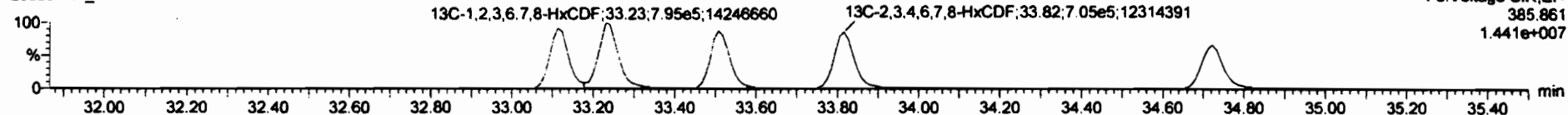


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200203R1_1

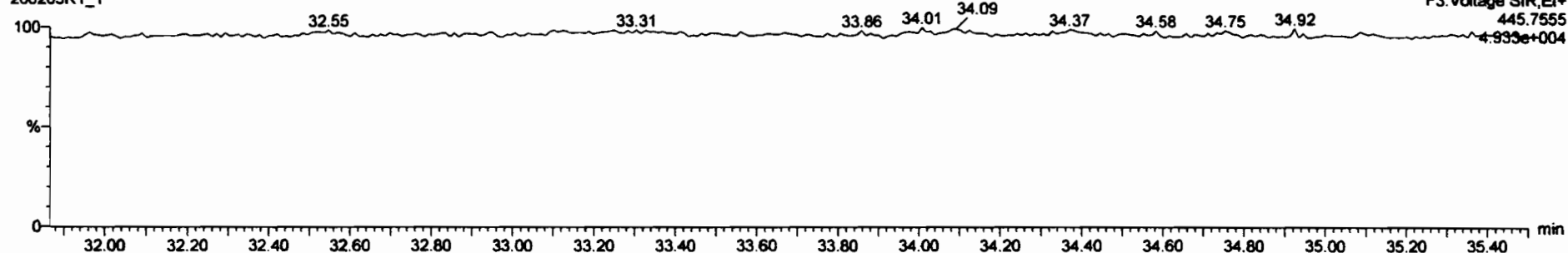


200203R1_1



DPE3

200203R1_1

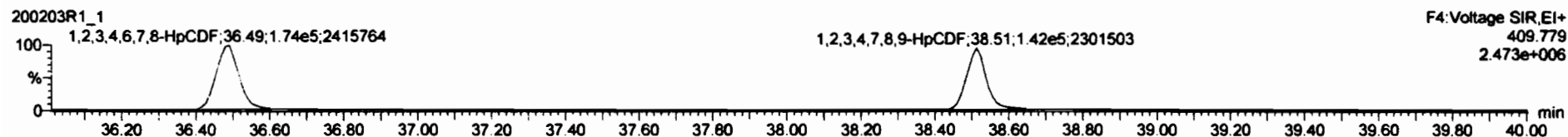
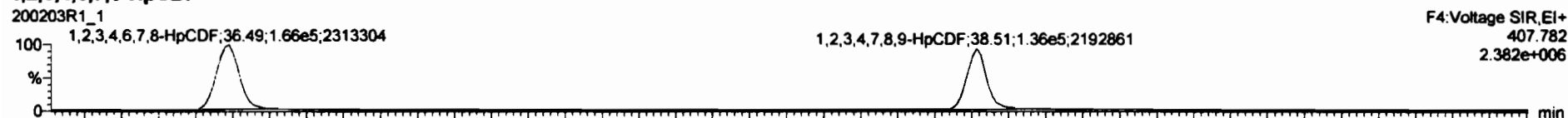


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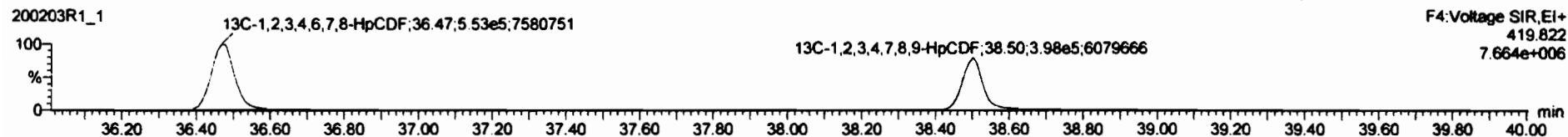
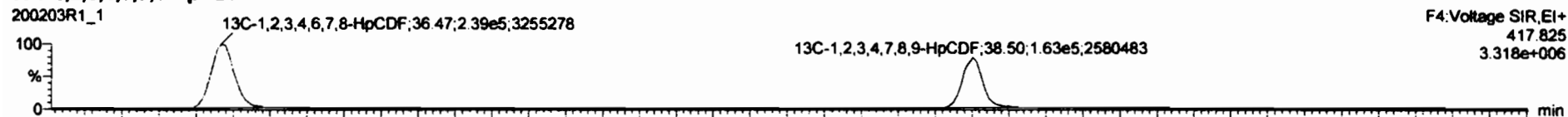
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Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

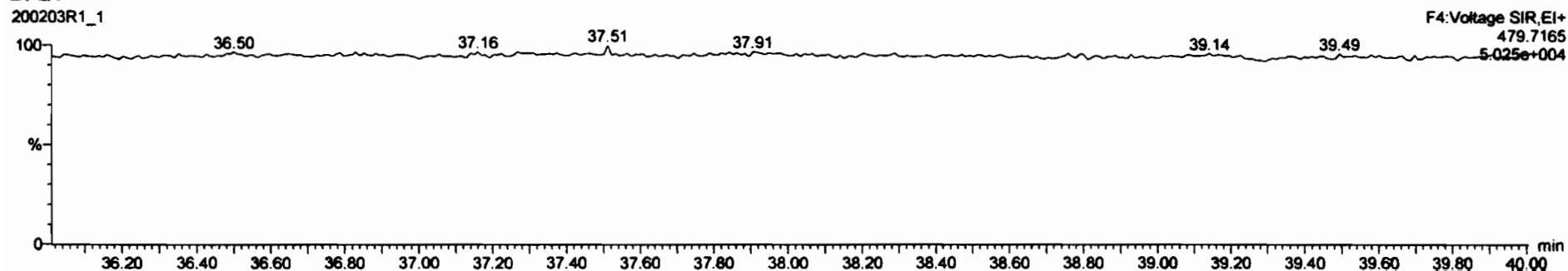
1,2,3,4,6,7,8-HpCDF



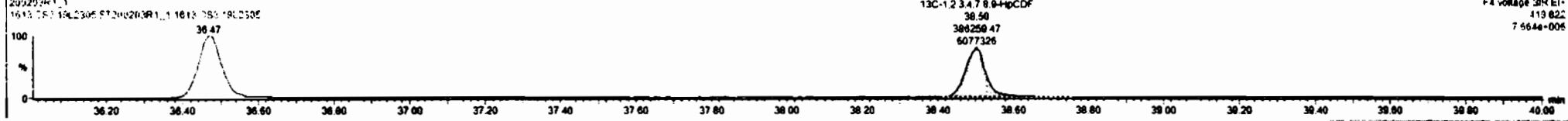
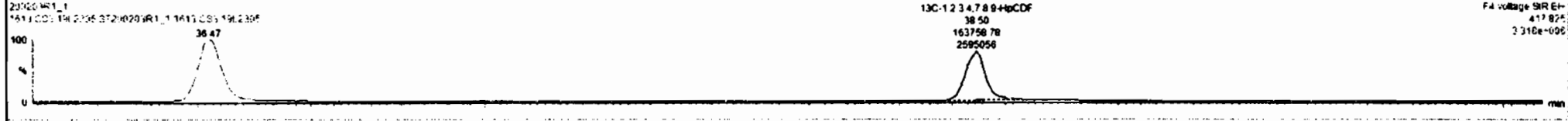
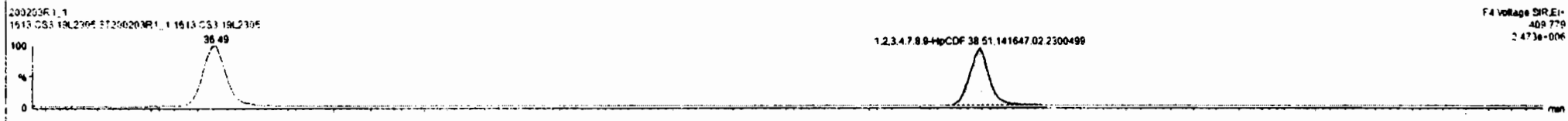
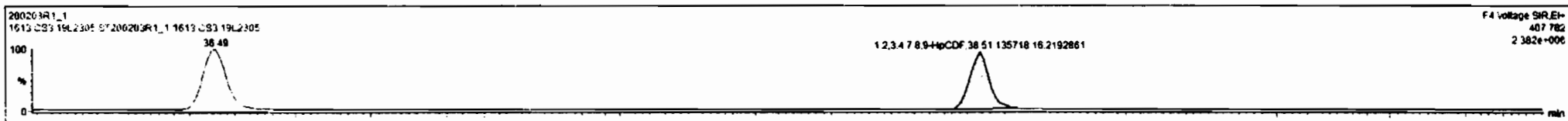
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	Wt%	Wt%	Peak No.	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%	Wt%
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9881	25.72	25.71	NO	1.001	1.001	10.1	101	NO			
2	1,2,3,7,8-PeCDD	4.93e5	1.08e6	0.83	0.83	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.0	94.0	NO			
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0798	34.00	34.00	NO	1.000	1.000	48.8	96.8	NO			
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e6	1.24	1.24	NO	0.8211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO			
5	1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.38	34.38	NO	1.001	1.001	48.7	97.4	NO			
6	1,2,3,4,6,7,8-HpCDD	3.11e5	6.98e5	1.04	0.99	NO	0.9231	37.82	37.93	NO	1.000	1.001	48.5	96.9	NO			
7	OCDD	5.98e5	1.26e6	0.88	0.88	NO	0.9748	40.92	40.95	NO	1.000	1.000	95.8	95.8	NO			
8	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.8620	24.83	24.82	NO	1.001	1.001	9.93	99.3	NO			
9	1,2,3,7,8-PeCDF	7.89e5	1.71e6	1.55	1.53	NO	0.9874	29.38	29.37	NO	1.001	1.001	49.6	99.1	NO			
10	1,2,3,4,7,8-HxCDF	7.88e5	1.65e6	1.56	1.51	NO	0.8518	30.38	30.35	NO	1.001	1.001	48.8	97.7	NO			
11	1,2,3,4,7,8-HxCDF	4.85e5	1.08e6	1.24	1.20	NO	0.8623	33.11	33.14	NO	1.000	1.001	50.9	102	NO			
12	1,2,3,6,7,8-HxCDF	5.26e5	1.20e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO			
13	1,2,3,4,6,7,8-HpCDF	4.88e5	1.07e6	1.24	1.18	NO	0.8882	33.85	33.83	NO	1.001	1.000	51.1	102	NO			
14	1,2,3,7,8,9-HxCDF	3.94e5	8.15e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100	NO			
15	1,2,3,4,6,7,8-HpCDF	3.40e5	7.91e5	1.04	0.98	NO	0.8511	36.51	36.48	NO	1.001	1.001	50.5	101	NO			
17	OCDF	6.08e5	1.48e6	0.88	0.87	NO	0.8955	41.11	41.12	NO	1.000	1.000	101	101	NO			

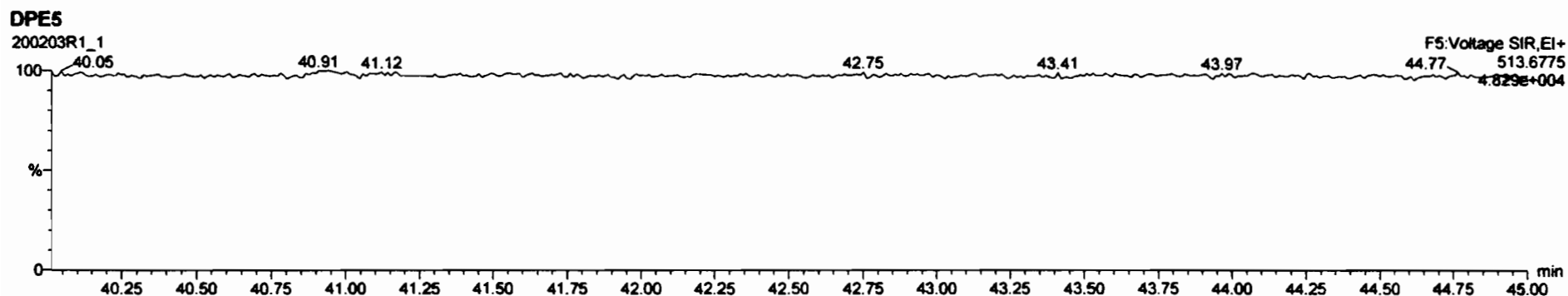
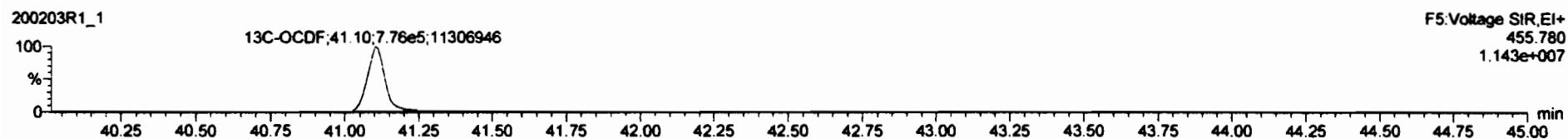
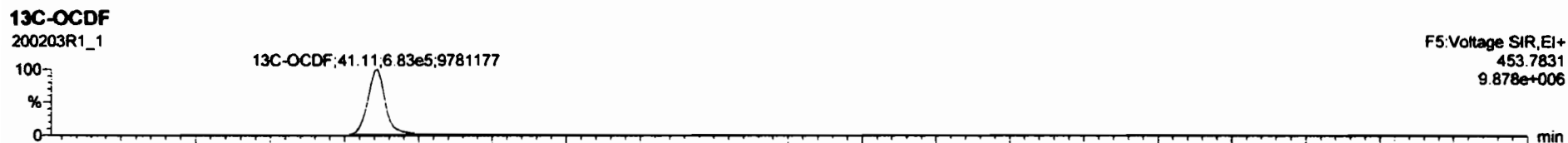
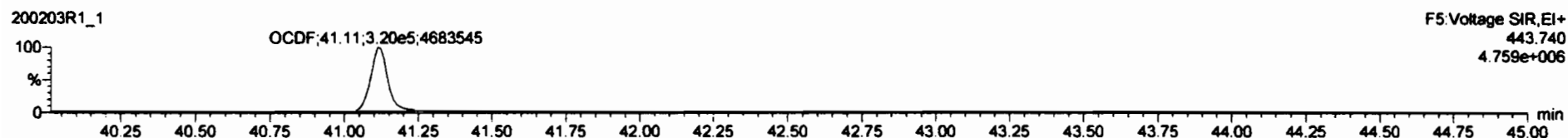
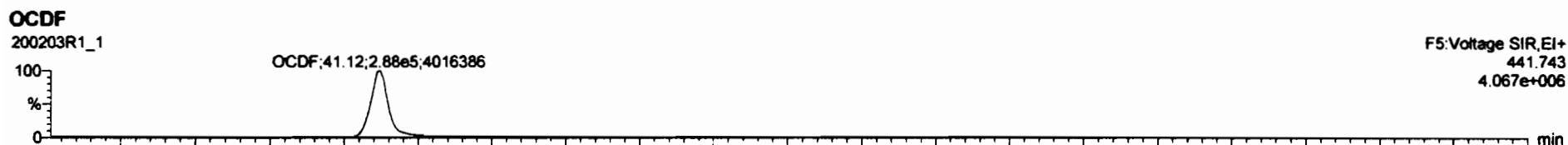


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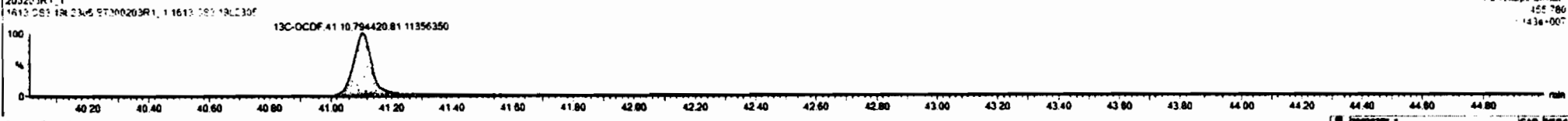
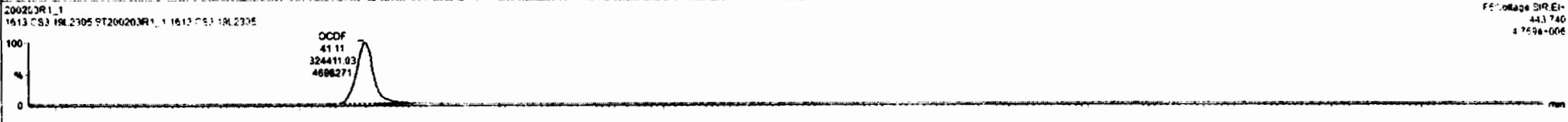
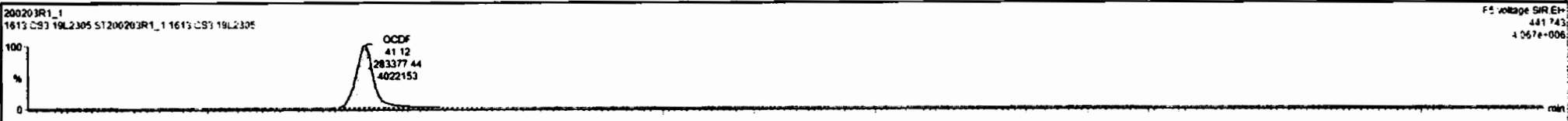
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Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



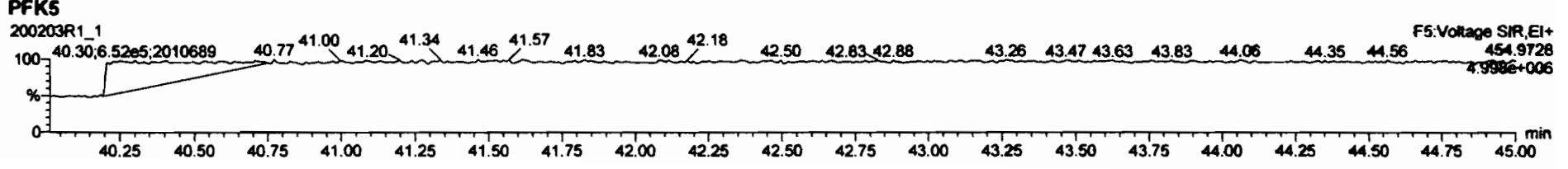
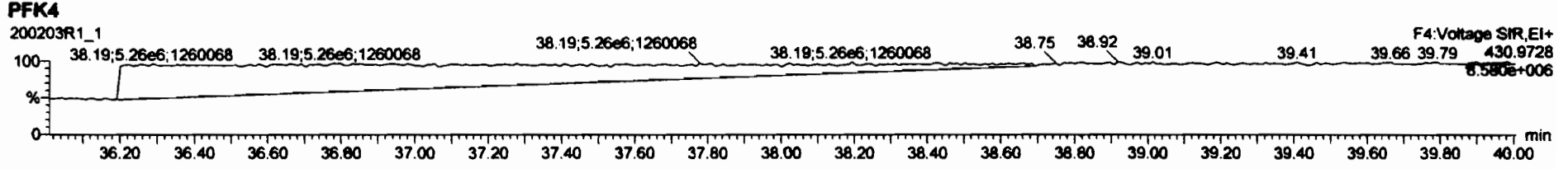
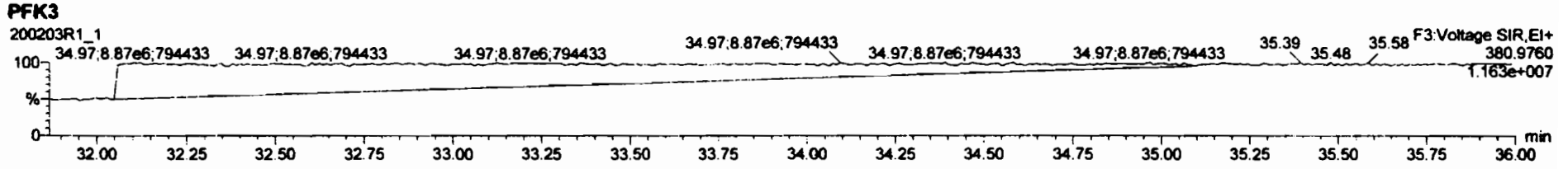
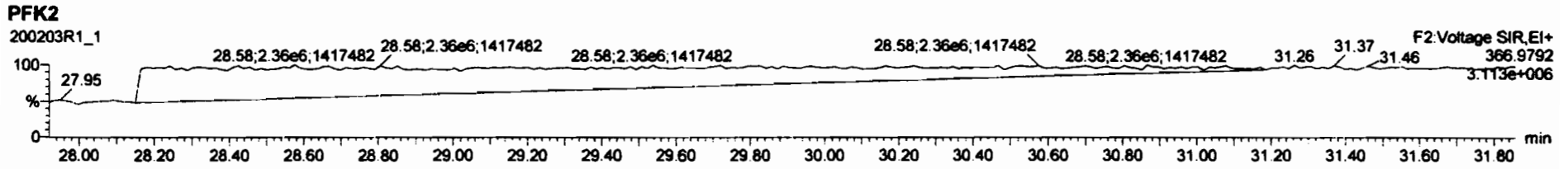
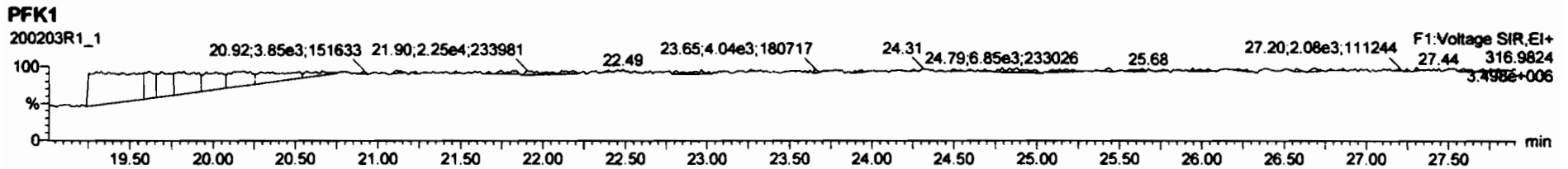
Peak	Name	Area	Height	Width	Skew	S/N	Ret	Ident	Ref	Alt Ref	Prod. Ref	Ident	Area	Height	Width	Skew	S/N
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9891	25.72	25.71	NO	1.001	1.001	18.1	181			NO
2	1,2,3,7,8-PeCDD	4.87e5	1.08e5	0.63	0.63	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.0	94.0			NO
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0708	34.06	34.60	NO	1.000	1.000	49.8	99.6			NO
4	1,2,3,4,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.06	34.10	NO	1.000	1.001	47.7	95.4			NO
5	1,2,3,7,8-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.39	34.38	NO	1.001	1.001	48.7	97.4			NO
6	1,2,3,4,6,7,8-HxCDD	3.11e5	6.98e5	1.04	0.99	NO	0.9231	37.82	37.83	NO	1.000	1.001	46.5	98.9			NO
7	OCDF	5.98e5	1.28e5	0.89	0.88	NO	0.9748	40.92	40.93	NO	1.000	1.000	95.8	95.8			NO
8	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.9020	24.83	24.82	NO	1.001	1.001	9.93	99.3			NO
9	1,2,3,7,8-PeCDF	7.88e5	1.71e5	1.55	1.53	NO	0.9074	28.38	28.37	NO	1.001	1.001	48.6	99.1			NO
10	2,3,4,7,8-PeCDF	7.88e5	1.85e5	1.51	1.51	NO	0.9518	30.38	30.35	NO	1.001	1.001	48.8	97.7			NO
11	1,2,3,4,7,8-HxCDF	4.85e5	1.89e5	1.24	1.20	NO	0.9823	33.11	33.14	NO	1.000	1.001	58.9	102			NO
12	1,2,3,4,7,8-HxCDF	5.26e5	1.20e5	1.24	1.19	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104			NO
13	2,3,4,6,7,8-HxCDF	4.88e5	1.07e5	1.24	1.18	NO	0.8882	33.85	33.83	NO	1.001	1.000	51.1	102			NO
14	1,2,3,7,8-HxCDF	3.94e5	9.19e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100			NO
15	1,2,3,4,6,7,8-HxCDF	3.40e5	7.91e5	1.04	0.95	NO	0.8511	36.51	36.48	NO	1.001	1.001	50.5	101			NO
16	1,2,3,4,7,8-HxCDF	2.77e5	5.50e5	1.04	0.98	NO	0.9790	38.58	38.51	NO	1.000	1.000	51.5	103			NO



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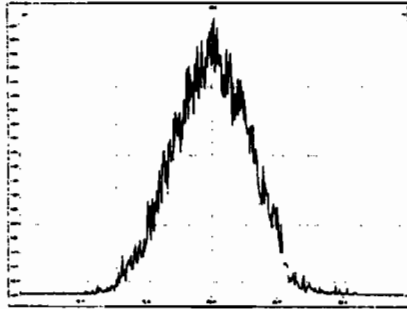
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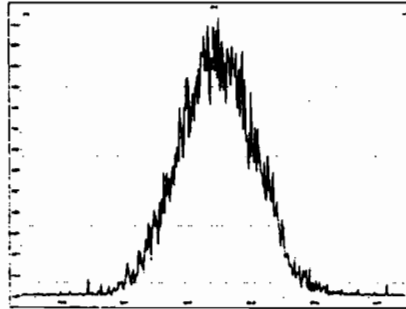


Printed: Monday, February 03, 2020 23:56:34 Pacific Standard Time

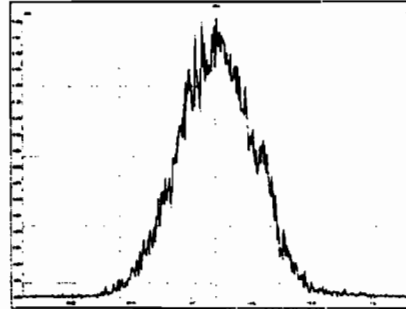
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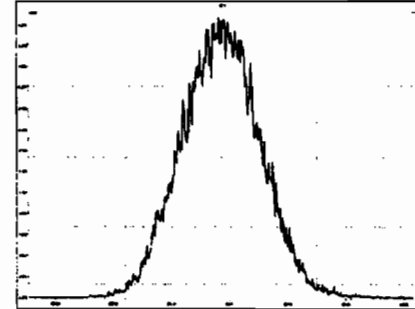
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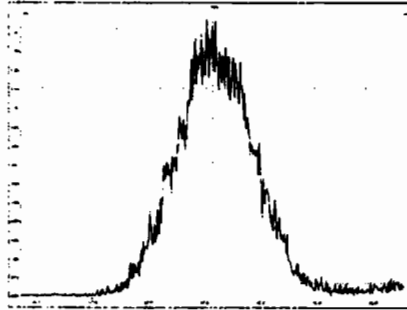
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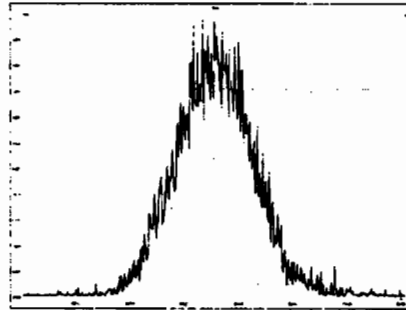
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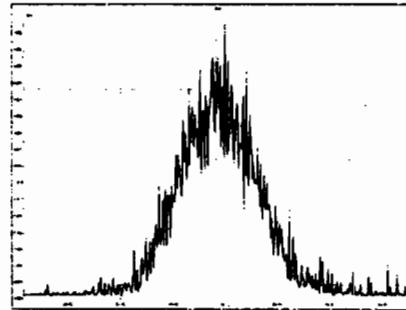
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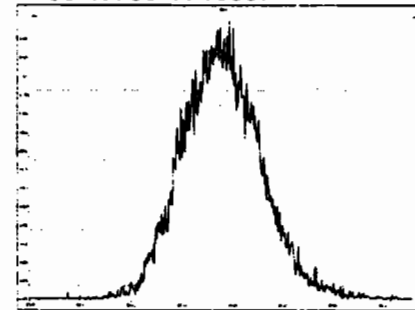
M 354.9792 R 11176



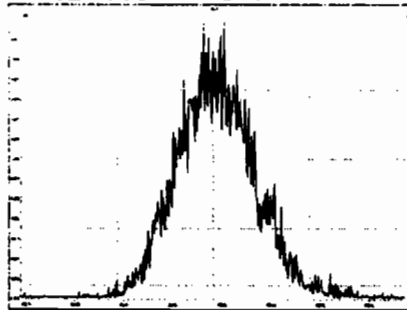
M 366.9792 R 10980



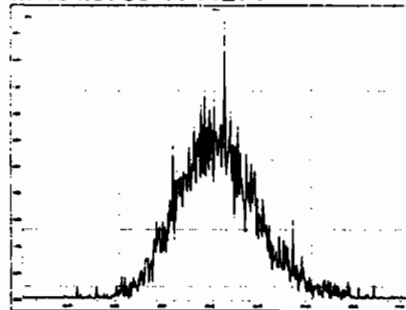
M 380.9760 R 10997



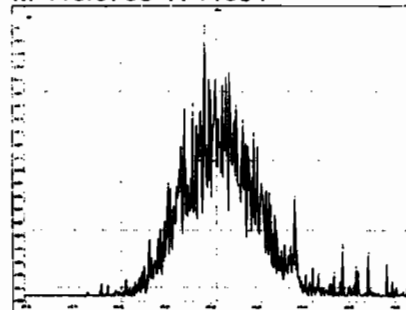
M 392.9760 R 11311



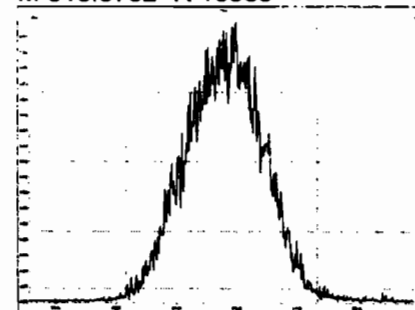
M 404.9760 R 11271



M 416.9760 R 11604

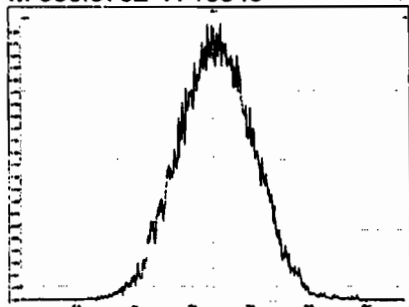


M 318.9792 R 10989

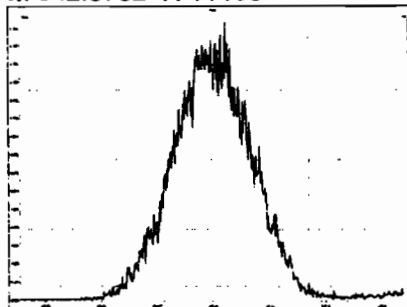


Printed: Monday, February 03, 2020 23:56:34 Pacific Standard Time

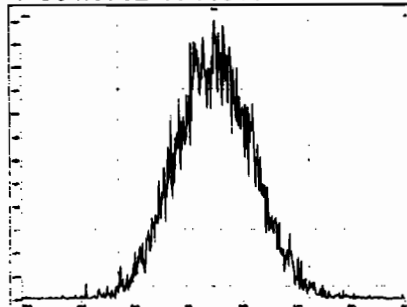
M 330.9792 R 10849



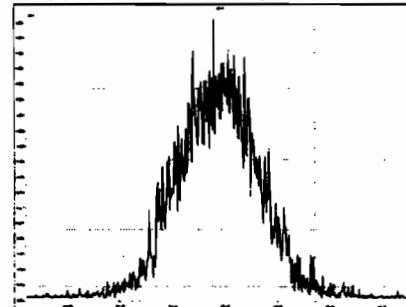
M 342.9792 R 11160



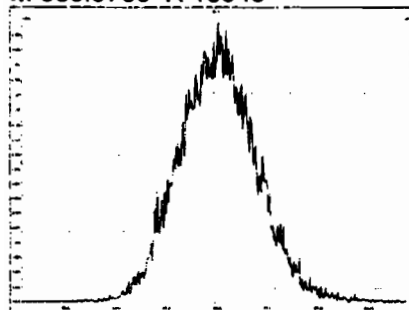
M 354.9792 R 11016



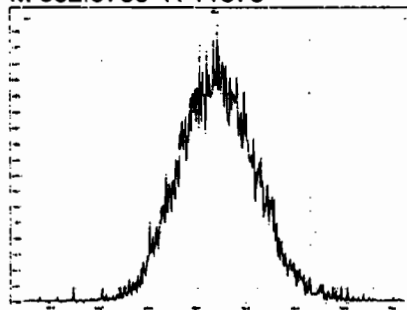
M 366.9792 R 11409



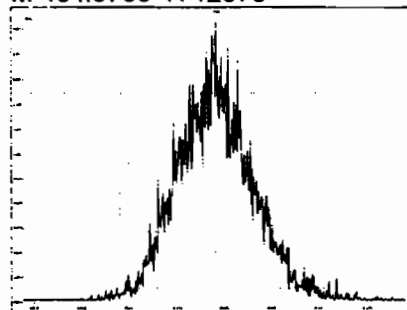
M 380.9760 R 10949



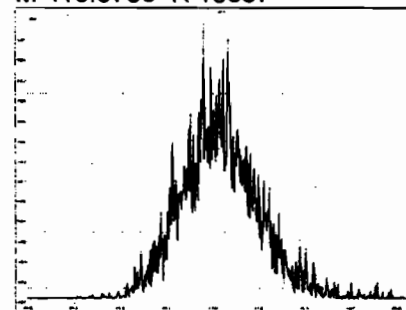
M 392.9760 R 11573



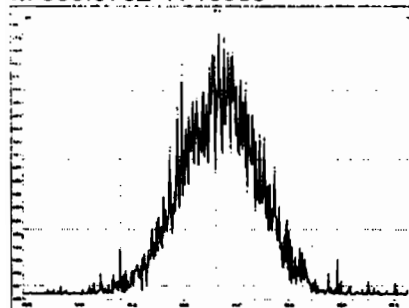
M 404.9760 R 12078



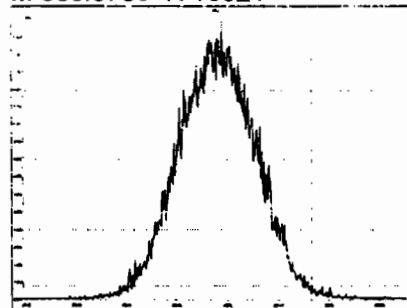
M 416.9760 R 10857



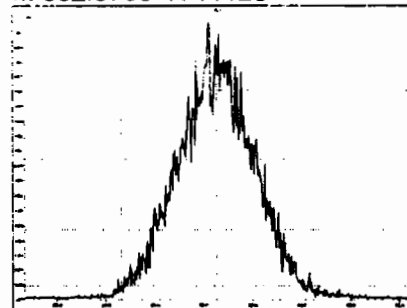
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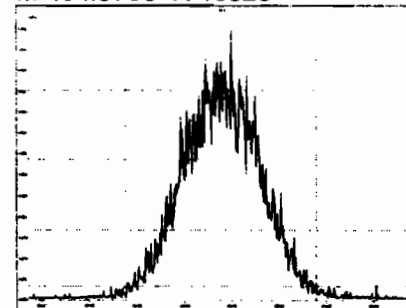
M 380.9760 R 10921



M 392.9760 R 11128

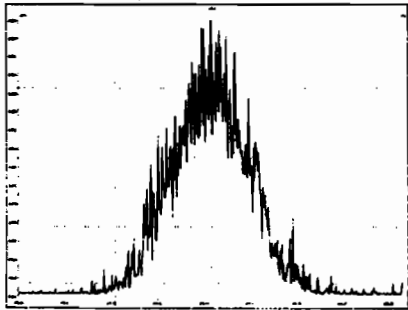


M 404.9760 R 10929

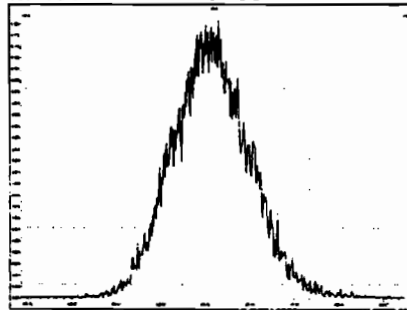


Printed: Monday, February 03, 2020 23:56:34 Pacific Standard Time

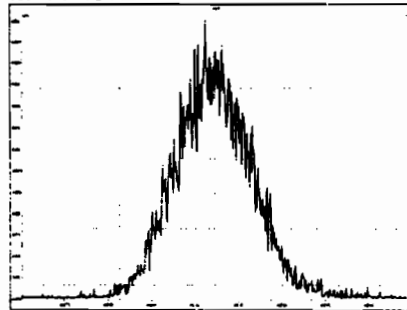
M 416.9760 R 11261



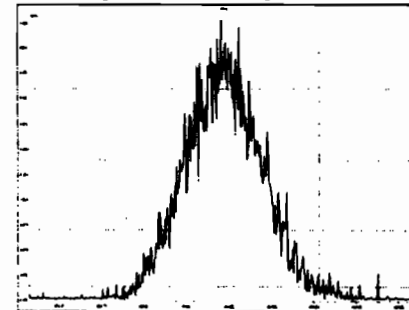
M 430.9728 R 10706



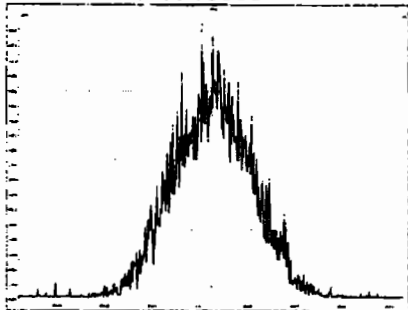
M 442.9728 R 11178



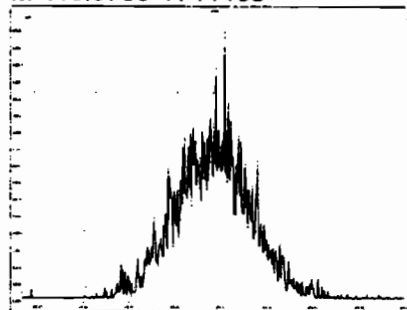
M 454.9728 R 11163



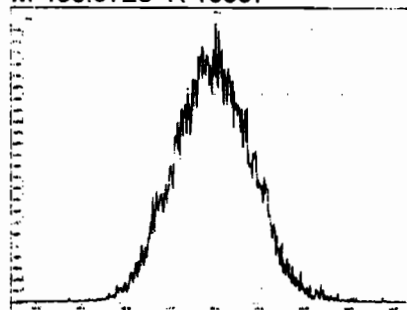
M 404.9760 R 10688



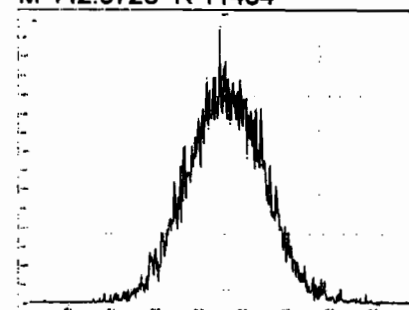
M 416.9760 R 11138



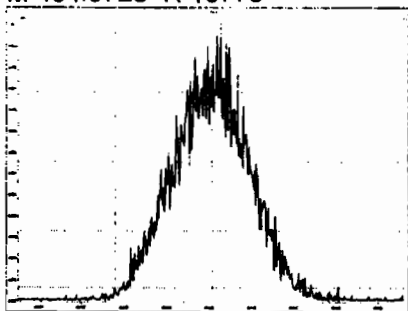
M 430.9728 R 10597



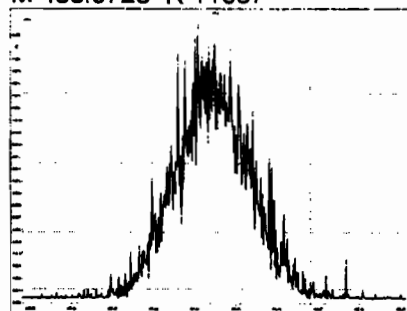
M 442.9728 R 11454



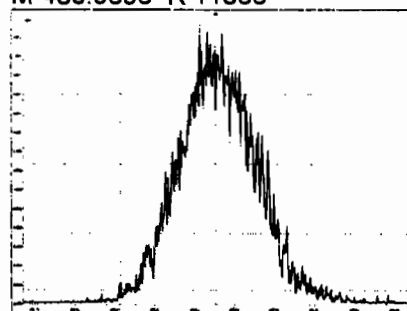
M 454.9728 R 10776



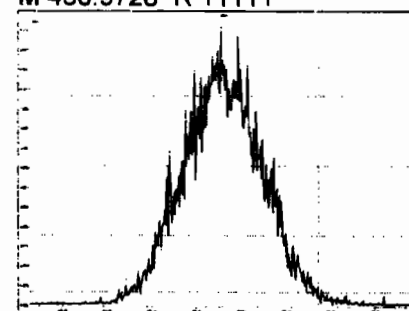
M 466.9728 R 11037



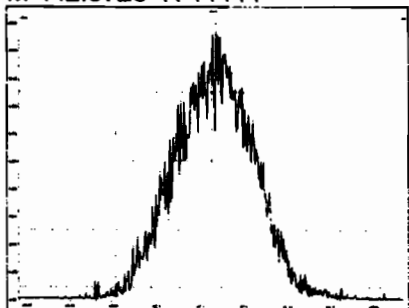
M 480.9696 R 11536



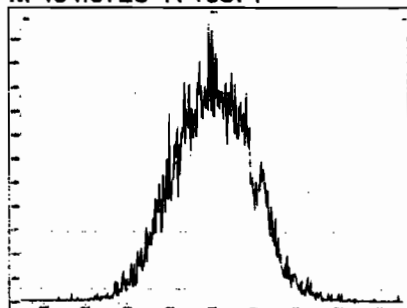
M 430.9728 R 11111



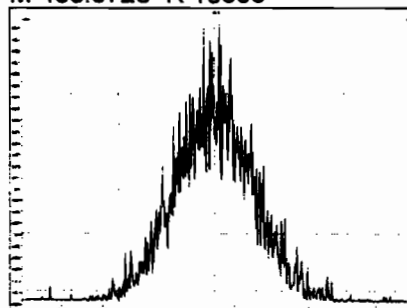
M 442.9728 R 11111



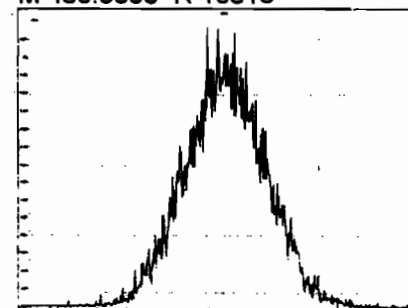
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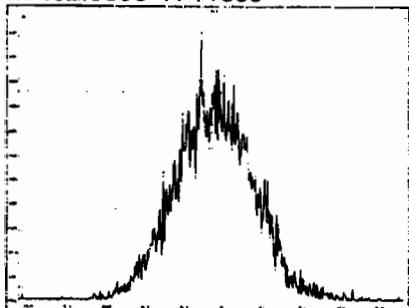
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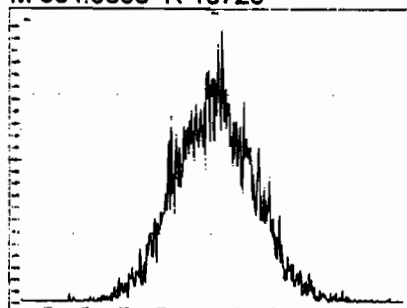
M 480.9696 R 10513



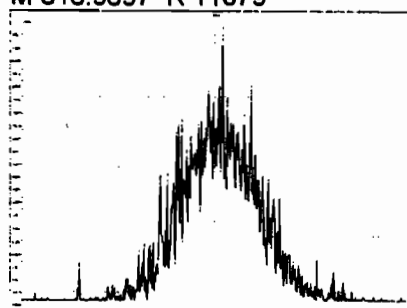
M 492.9696 R 11039



M 504.9696 R 10729



M 516.9697 R 11079



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200311R3-1

Reviewed By: CT 03/12/2020

Initials & Date

End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	_____
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>GRB</u>	_____

Mass resolution ≥

5k 6-8K 8K 10K
1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1
within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-7.qld

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time

Printed: Thursday, March 12, 2020 07:35:58 Pacific Daylight Time

GRB 03/12/2020

CT 03/12/2020

Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.06e5	0.74	NO	0.821	1.000	16.53	9.8162	98.2	0.107
2	2 13C-2,3,7,8-TCDF	2.56e6	0.77	NO	1.10	1.000	16.51	100.90	101	0.403
3	3 13C-1,2,3,4-TCDF	2.31e6	0.78	NO	1.00	1.000	14.41	100.00	100	0.443
4	4 13C-1,2,3,4-TCDD	1.84e6	0.78	NO	12000	1.000	15.04	153.62	154	0.228

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:36:34 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:37:40 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Compound name: 2,3,7,8-TCDF

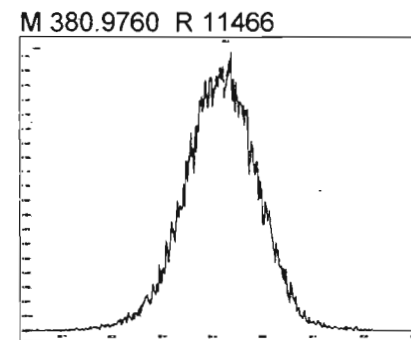
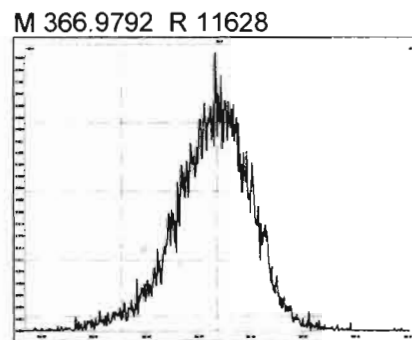
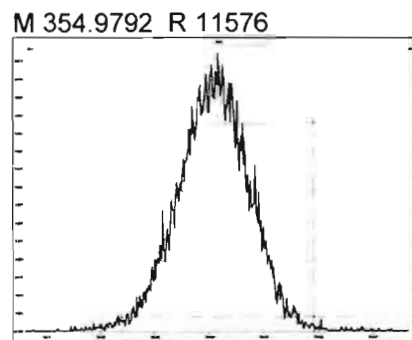
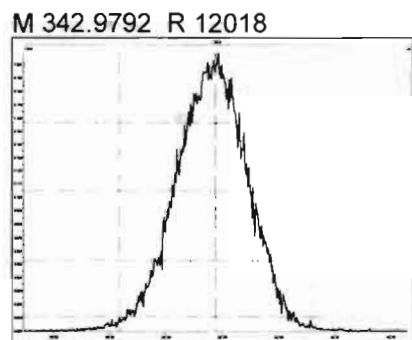
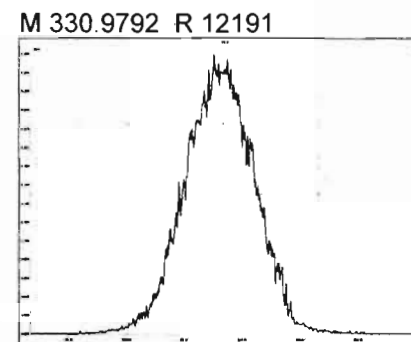
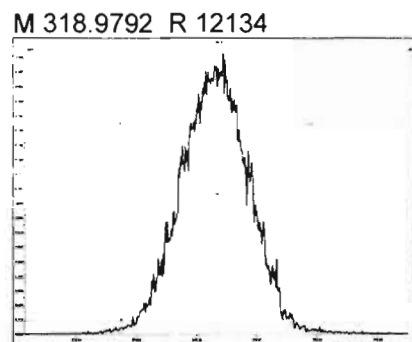
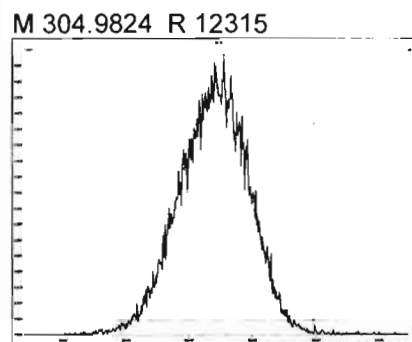
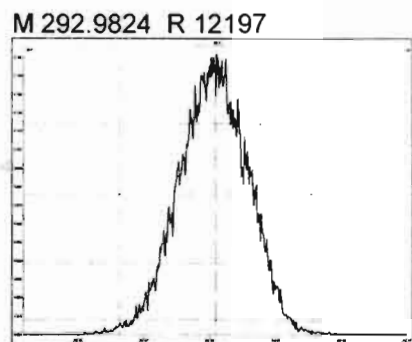
	Name	ID	Acq.Date	Acq.Time
1	200311R3_4	SOLVENT BLANK	11-Mar-20	17:13:26
2	200311R3_5	SOLVENT BLANK	11-Mar-20	17:43:38
3	200311R3_6	CP200311R3_1 225 CPSM	11-Mar-20	18:14:01
4	200311R3_7	ST200311R3_1 1613 CS3 19L2305	11-Mar-20	18:44:28
5	200311R3_8	SOLVENT BLANK	11-Mar-20	19:14:55
6	200311R3_9	1903826-01RE2 PDI-034SC-B-00-02-191022 ...	11-Mar-20	19:45:21
7	200311R3_10	1903826-05RE1 PDI-083SC-B-00-02-191022 ...	11-Mar-20	20:15:49
8	200311R3_11	1903826-06RE1 PDI-083SC-B-02-04-191022 ...	11-Mar-20	20:46:13
9	200311R3_12	1903826-07RE1 PDI-083SC-B-04-06-191022 ...	11-Mar-20	21:16:40
10	200311R3_13	1903826-08RE1 PDI-083SC-B-06-08-191022 ...	11-Mar-20	21:47:04
11	200311R3_14	1903826-09RE1 PDI-099SC-B-00-02-191022 ...	11-Mar-20	22:17:32
12	200311R3_15	1903826-10RE1 PDI-099SC-B-02-04-191022 ...	11-Mar-20	22:48:00
13	200311R3_16	1903826-11RE1 PDI-099SC-B-04-06-191022 ...	11-Mar-20	23:18:24
14	200311R3_17	1903826-12RE1 PDI-099SC-B-06-08-191022 ...	11-Mar-20	23:48:51
15	200311R3_18	1903654-01RE1 PDI-073SC-B-00-02-191013 ...	12-Mar-20	00:19:18
16	200311R3_19	1903654-02RE1 PDI-073SC-B-02-04-191013 ...	12-Mar-20	00:49:46
17	200311R3_20	1903654-04RE1 PDI-073SC-B-06-08-191013 ...	12-Mar-20	01:20:15
18	200311R3_21	1903654-06RE1 PDI-075SC-B-02-04-191013 ...	12-Mar-20	01:50:43
19	200311R3_22	B0A0056-DUP1 Duplicate 16.6	12-Mar-20	02:21:10
20	200311R3_23	1903654-07RE1 PDI-075SC-B-04-06-191013 ...	12-Mar-20	02:51:37
21	200311R3_24	1903654-09RE1 PDI-076SC-B-00-02-191013 ...	12-Mar-20	03:22:06
22	200311R3_25	1903654-10RE1 PDI-076SC-B-02-05-191013 ...	12-Mar-20	03:52:34
23	200311R3_26	1903827-01RE1 PDI-057SC-B-00-02-191023 ...	12-Mar-20	04:22:57
24	200311R3_27	1903827-02RE1 PDI-057SC-B-02-04-191023 ...	12-Mar-20	04:53:25
25	200311R3_28	1903827-03RE1 PDI-057SC-B-04-06-191023 ...	12-Mar-20	05:23:51
26	200311R3_29	1903736-10RE3 PDI-079SC-B-02-04-191014 ...	12-Mar-20	05:54:20

Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

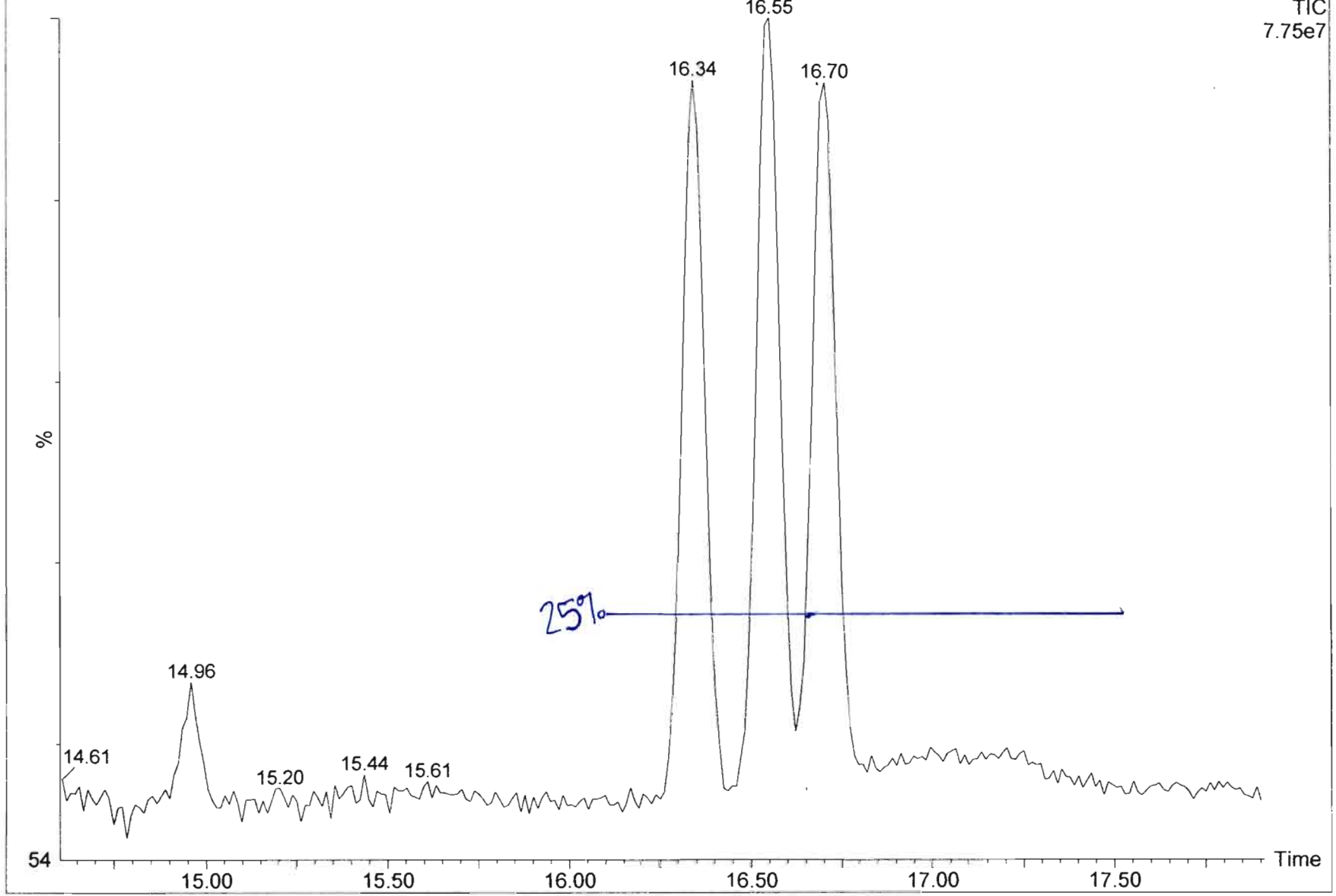
Printed: Wednesday, March 11, 2020 16:47:45 Pacific Daylight Time



GRB 03/12/2020

225 CPSM
200311R3_6

Voltage SIR 12 Channels EI+
TIC
7.75e7



Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:35:08 Pacific Daylight Time

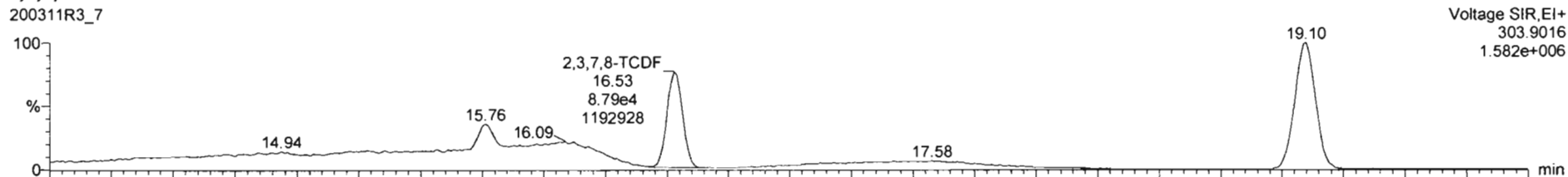
Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

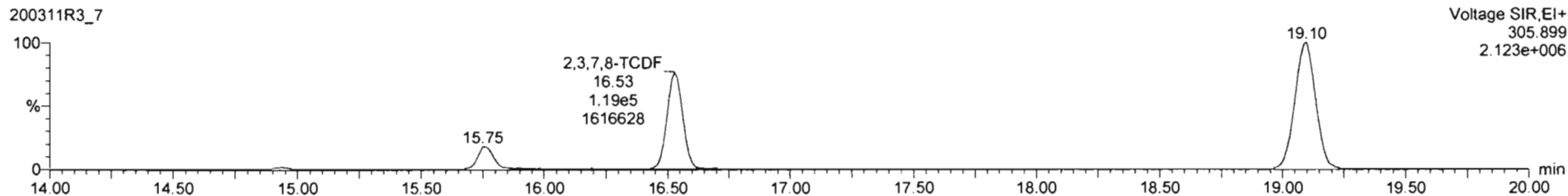
Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200311R3_7

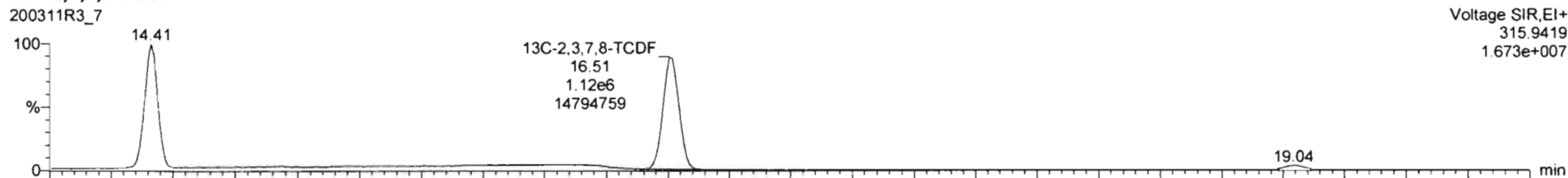


200311R3_7

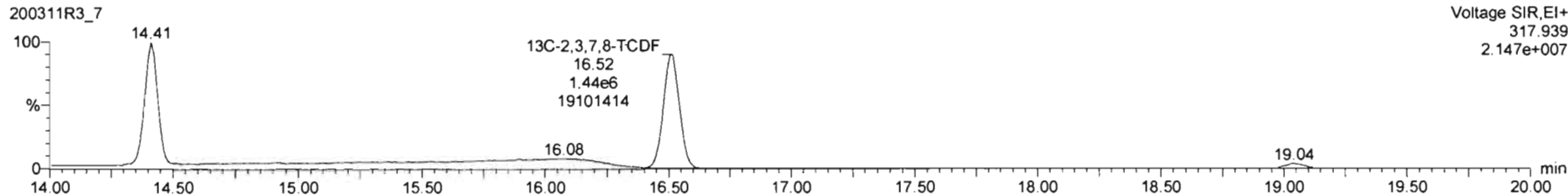


13C-2,3,7,8-TCDF

200311R3_7



200311R3_7



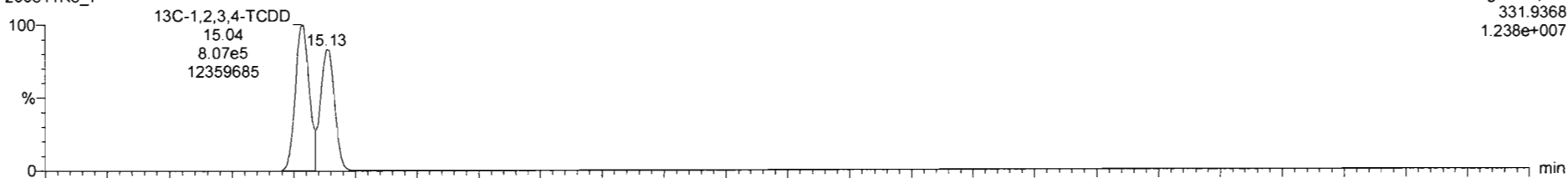
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:35:08 Pacific Daylight Time

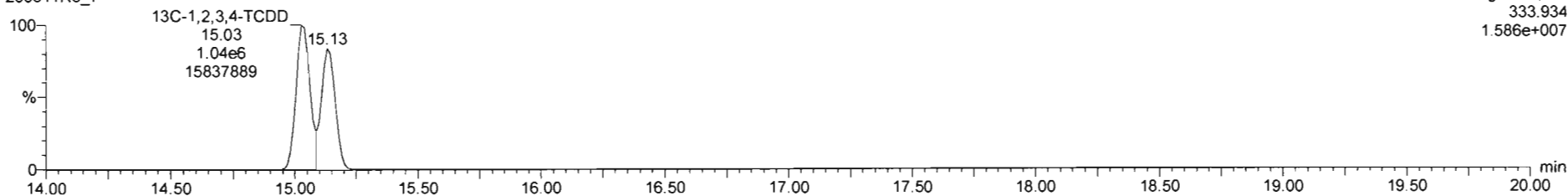
Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

13C-1,2,3,4-TCDD

200311R3_7

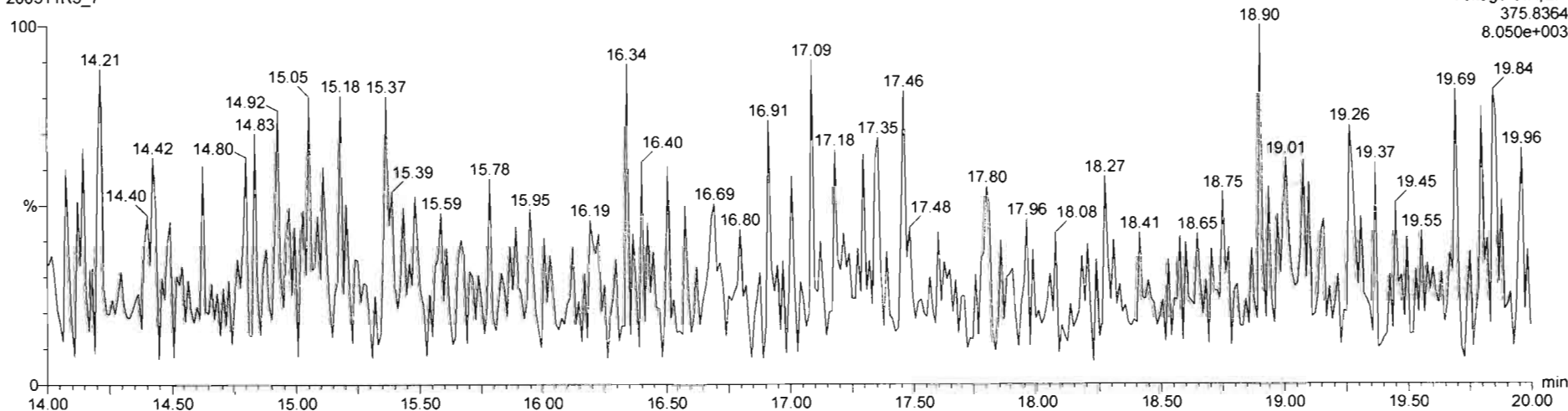


200311R3_7



DPE1

200311R3_7

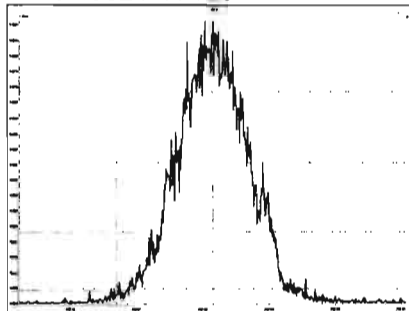


Resolution Check Report

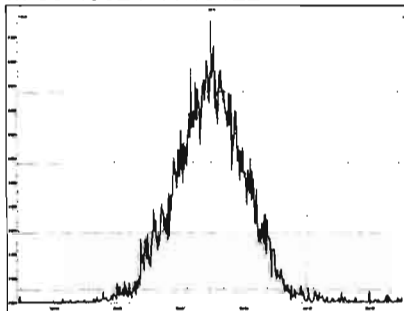
MassLynx 4.1 SCN815

Printed: Thursday, March 12, 2020 06:26:41 Pacific Daylight Time

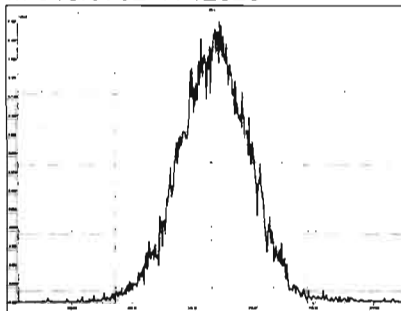
M 292.9824 R 12577



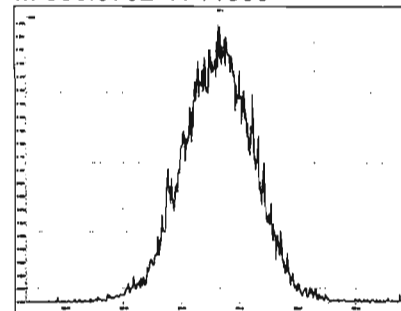
M 304.9824 R 13122



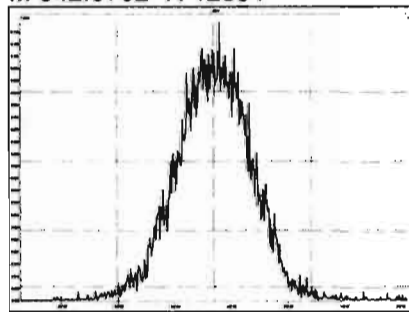
M 318.9792 R 12026



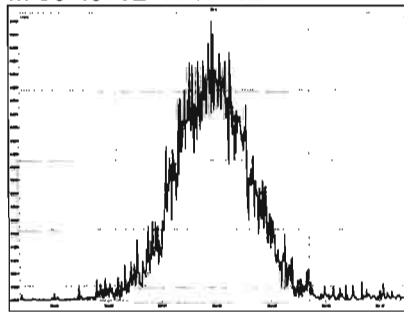
M 330.9792 R 11600



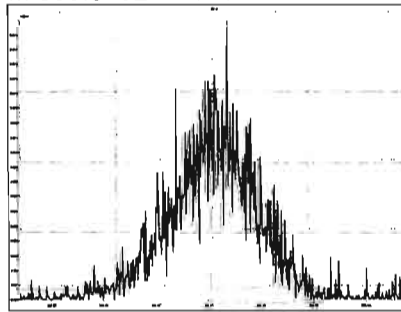
M 342.9792 R 12351



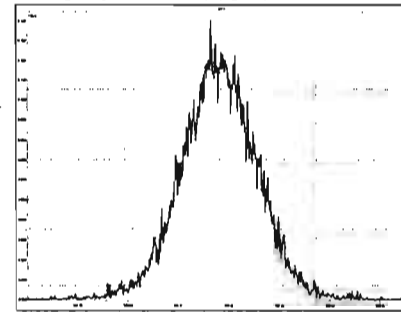
M 354.9792 R 13162



M 366.9792 R 12122



M 380.9760 R 11041



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200318R1-1

Reviewed By: CT 03/19/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u> </u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	<u> </u>

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-1.qld

Last Altered: Wednesday, March 18, 2020 16:19:33 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:20:45 Pacific Daylight Time

GRB 03/18/2020

CT 03/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.74e4	9.60e5	0.80	NO	0.983	25.81	25.80	NO	1.001	1.001	9.2633	92.6	NO
2	2 1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.61	NO	0.921	31.09	31.08	NO	1.001	1.000	47.554	95.1	NO
3	3 1,2,3,4,7,8-HxCDD	3.10e5	5.50e5	1.24	NO	1.13	34.48	34.48	NO	1.000	1.000	49.674	99.3	NO
4	4 1,2,3,6,7,8-HxCDD	3.20e5	6.97e5	1.25	NO	0.984	34.57	34.58	NO	1.000	1.000	46.621	93.2	NO
5	5 1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.26	NO	0.967	34.84	34.84	NO	1.000	1.000	48.071	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	NO	1.01	38.26	38.27	NO	1.000	1.001	48.409	96.8	NO
7	7 OCDD	4.75e5	9.90e5	0.92	NO	1.05	41.31	41.32	NO	1.000	1.000	91.204	91.2	NO
8	8 2,3,7,8-TCDF	1.13e5	1.32e6	0.75	NO	0.915	24.80	24.81	NO	1.001	1.001	9.3635	93.6	NO
9	9 1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.56	NO	0.959	29.74	29.74	NO	1.001	1.001	49.091	98.2	NO
10	10 2,3,4,7,8-PeCDF	5.29e5	1.09e6	1.58	NO	1.00	30.77	30.76	NO	1.001	1.000	48.359	96.7	NO
11	11 1,2,3,4,7,8-HxCDF	4.10e5	8.09e5	1.22	NO	1.04	33.61	33.63	NO	1.000	1.001	48.818	97.6	NO
12	12 1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.25	NO	1.01	33.75	33.75	NO	1.000	1.000	48.708	97.4	NO
13	13 2,3,4,6,7,8-HxCDF	4.34e5	8.22e5	1.21	NO	1.09	34.33	34.32	NO	1.001	1.001	48.367	96.7	NO
14	14 1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.23	NO	1.03	35.17	35.18	NO	1.000	1.000	48.298	96.6	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.34e5	6.61e5	1.00	NO	1.05	36.90	36.88	NO	1.001	1.000	48.218	96.4	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	4.43e5	1.02	NO	1.21	38.90	38.92	NO	1.000	1.001	48.571	97.1	NO
17	17 OCDF	5.49e5	1.19e6	0.88	NO	0.947	41.49	41.50	NO	1.000	1.000	97.240	97.2	NO
18	18 13C-2,3,7,8-TCDD	9.60e5	8.34e5	0.78	NO	1.18	25.77	25.78	NO	1.029	1.029	97.175	97.2	NO
19	19 13C-1,2,3,7,8-PeCDD	7.67e5	8.34e5	0.63	NO	0.864	30.96	31.06	NO	1.236	1.240	106.45	106	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.50e5	8.17e5	1.28	NO	0.754	34.47	34.47	NO	1.014	1.014	89.378	89.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.97e5	8.17e5	1.25	NO	0.925	34.58	34.57	NO	1.017	1.017	92.178	92.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.32e5	8.17e5	1.28	NO	0.829	34.84	34.83	NO	1.025	1.024	93.304	93.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.06e5	8.17e5	1.07	NO	0.598	38.31	38.25	NO	1.127	1.125	103.56	104	NO
24	24 13C-OCDD	9.90e5	8.17e5	0.89	NO	0.571	41.46	41.31	NO	1.219	1.215	212.25	106	NO
25	25 13C-2,3,7,8-TCDF	1.32e6	1.26e6	0.78	NO	1.09	24.79	24.78	NO	0.990	0.989	96.184	96.2	NO
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.26e6	1.58	NO	0.876	29.63	29.72	NO	1.183	1.187	98.261	98.3	NO
27	27 13C-2,3,4,7,8-PeCDF	1.09e6	1.26e6	1.58	NO	0.844	30.64	30.74	NO	1.223	1.227	102.96	103	NO
28	28 13C-1,2,3,4,7,8-HxCDF	8.09e5	8.17e5	0.52	NO	1.00	33.62	33.61	NO	0.989	0.988	99.108	99.1	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.03e5	8.17e5	0.51	NO	1.12	33.73	33.74	NO	0.992	0.992	98.934	98.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.22e5	8.17e5	0.52	NO	1.04	34.31	34.30	NO	1.009	1.009	97.184	97.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.75e5	8.17e5	0.52	NO	0.873	35.18	35.17	NO	1.035	1.034	94.621	94.6	NO

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-1.qld

Last Altered: Wednesday, March 18, 2020 16:19:33 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:20:45 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.61e5	8.17e5	0.45	NO	0.771	36.90	36.87	NO	1.085	1.084	105.06	105	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.43e5	8.17e5	0.44	NO	0.519	38.99	38.90	NO	1.147	1.144	104.46	104	NO
34	34 13C-OCDF	1.19e6	8.17e5	0.88	NO	0.696	41.64	41.49	NO	1.225	1.220	209.61	105	NO
35	35 37Cl-2,3,7,8-TCDD	8.89e4	8.34e5			1.17	25.78	25.80	NO	1.029	1.030	9.0716	90.7	NO
36	36 13C-1,2,3,4-TCDD	8.34e5	8.34e5	0.79	NO	1.00	25.05	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.26e6	1.26e6	0.78	NO	1.00	23.19	23.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	8.17e5	8.17e5	0.51	NO	1.00	33.88	34.00	NO	1.000	1.000	100.00	100	YES ^{of}
39	39 Total Tetra-Dioxins		9.60e5			0.983	24.62		NO	0.000		81.434		NO
40	40 Total Penta-Dioxins		7.67e5			0.921	29.96		NO	0.000		206.09		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		240.16		NO
42	42 Total Hepta-Dioxins		5.06e5			1.01	37.64		NO	0.000		131.92		NO
43	43 Total Tetra-Furans		1.32e6			0.915	23.61		NO	0.000		46.262		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		85.994		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		166.94		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		274.02		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		96.789		NO

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-CPSM.qld

Last Altered: Wednesday, March 18, 2020 16:21:07 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 16:21:39 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.42
2	2 1,2,8,9-TCDD (Last)	26.84
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	33.01
6	6 1,2,3,7,8,9-HxCDD (Last)	34.84
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.25
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.27
9	9 1,3,6,8-TCDF (First)	19.42
10	10 1,2,8,9-TCDF (Last)	27.01
11	11 1,3,4,6,8-PeCDF (First)	26.96
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.44
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.88
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.92

Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:33:25 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:33:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

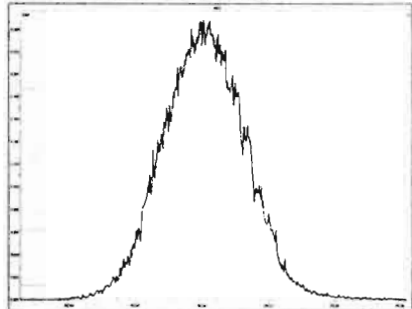
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200318R1_1	ST200318R1_1 1613 CS3 19L2305	18-Mar-20	15:30:33
2	200318R1_2	B0B0187-BS1 OPR 10	18-Mar-20	16:17:45
3	200318R1_3	B0C0038-BS1 OPR 10	18-Mar-20	17:04:28
4	200318R1_4	B0C0209-BS1 OPR 10	18-Mar-20	17:52:09
5	200318R1_5	SOLVENT BLANK	18-Mar-20	18:39:49
6	200318R1_6	B0B0187-BLK1 Method Blank 10	18-Mar-20	19:27:30
7	200318R1_7	B0C0038-BLK1 Method Blank 10	18-Mar-20	20:15:08
8	200318R1_8	B0C0209-BLK1 Method Blank 10	18-Mar-20	21:02:47
9	200318R1_9	2000194-12 PDI-057SC-A-07-08-191023 16.62	18-Mar-20	21:50:26
10	200318R1_10	2000194-13 PDI-057SC-A-08-09-191023 15.92	18-Mar-20	22:38:04
11	200318R1_11	2000194-14 PDI-062SC-A-08-09-191023 15.59	18-Mar-20	23:25:43
12	200318R1_12	2000194-15 PDI-062SC-A-09-10-191023 12.41	19-Mar-20	00:13:28
13	200318R1_13	2000142-16RE1 PDI-023SC-A-07-08-191009 ...	19-Mar-20	01:01:06
14	200318R1_14	2000143-19@2X PDI-049SC-A-02-03-191015 ...	19-Mar-20	01:48:46
15	200318R1_15	2000194-03@10X PDI-035SC-A-01-02-19101...	19-Mar-20	02:36:32

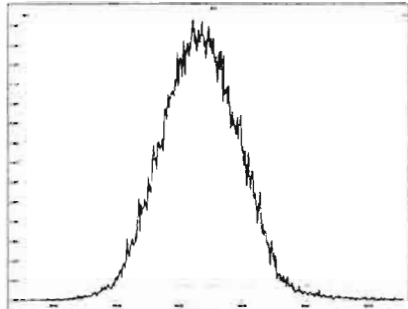
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:26:14 Pacific Daylight Time

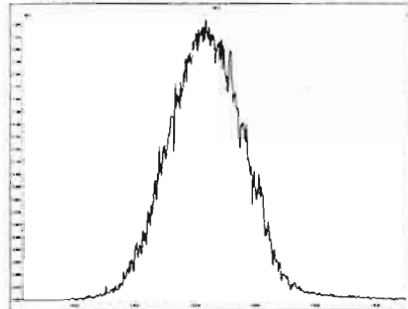
M 292.9824 R 10289



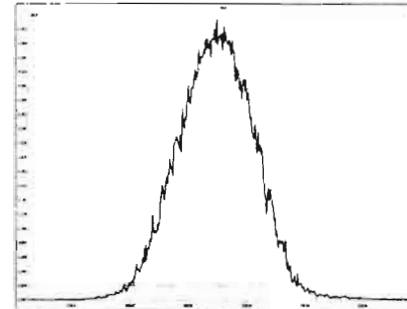
M 304.9824 R 10637



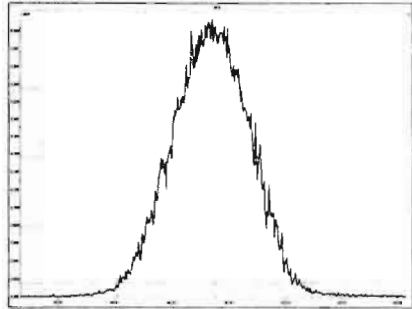
M 318.9792 R 11158



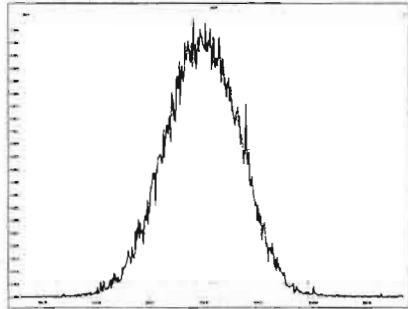
M 330.9792 R 11062



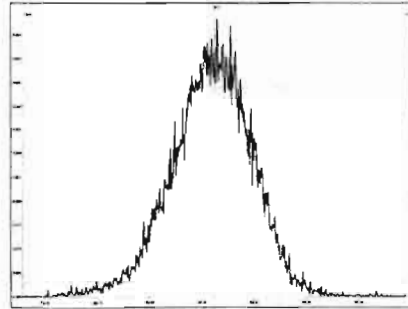
M 342.9792 R 11310



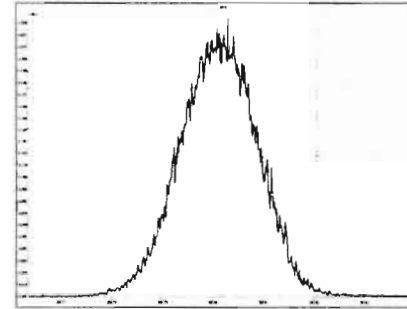
M 354.9792 R 11010



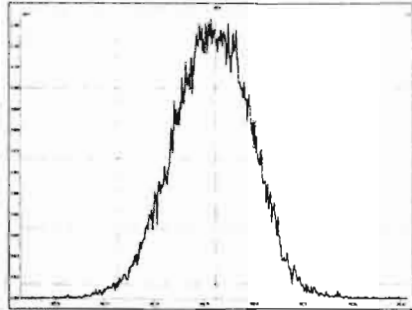
M 366.9792 R 10683



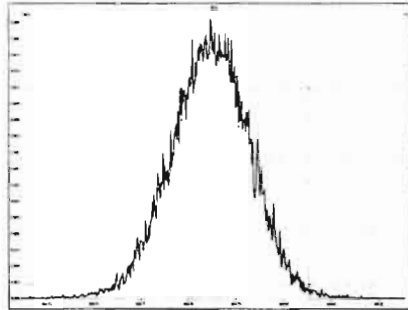
M 380.9760 R 11011



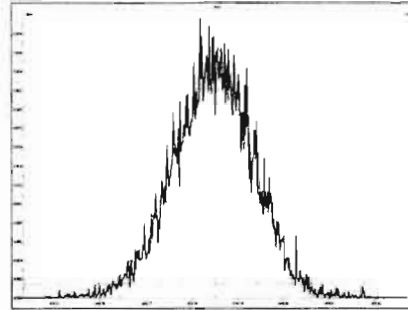
M 392.9760 R 10730



M 404.9760 R 11159



M 416.9760 R 11571



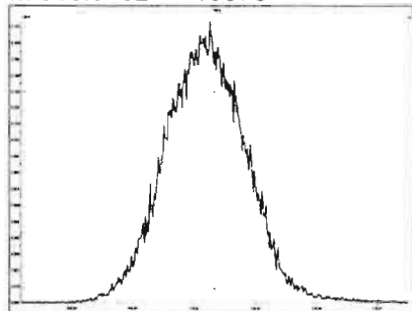
Experiment Calibration Report

MassLynx 4.1 SCN815

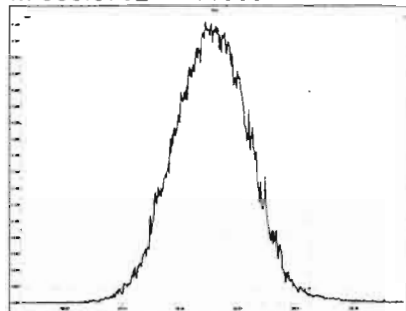
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:26:48 Pacific Daylight Time

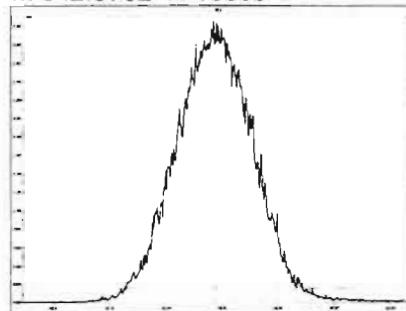
M 318.9792 R 10873



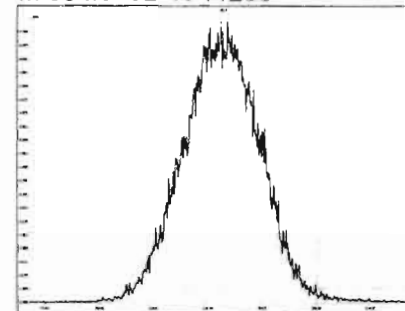
M 330.9792 R 11009



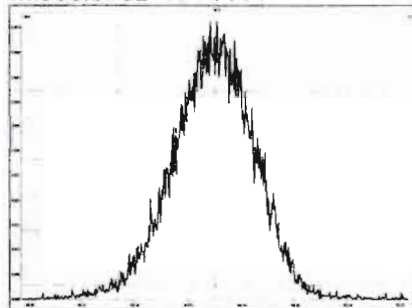
M 342.9792 R 10869



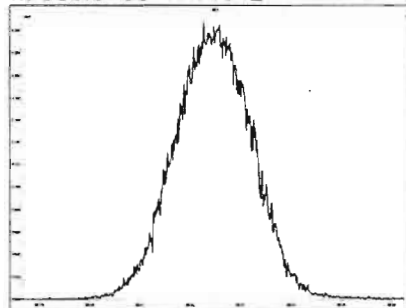
M 354.9792 R 11263



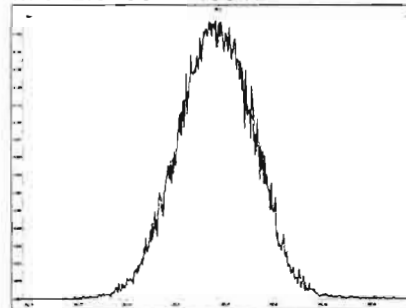
M 366.9792 R 11111



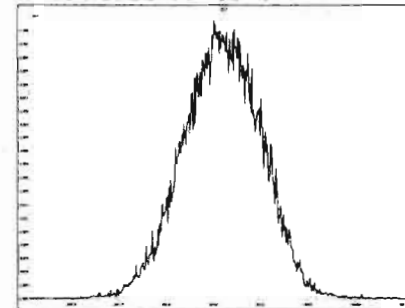
M 380.9760 R 11012



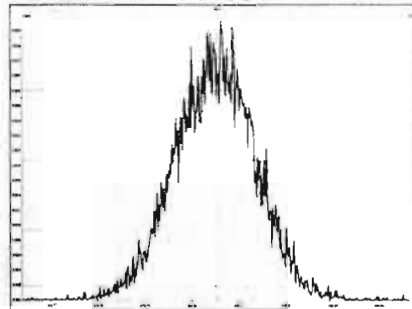
M 392.9760 R 10918



M 404.9760 R 10916



M 416.9760 R 11064



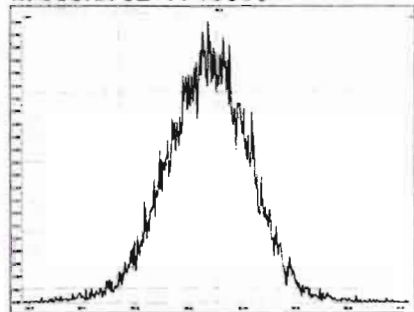
Experiment Calibration Report

MassLynx 4.1 SCN815

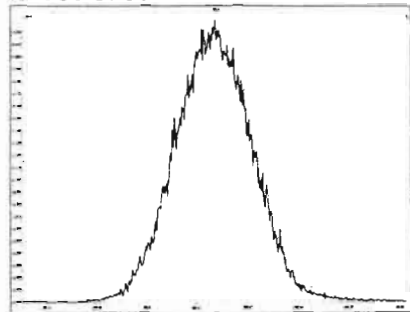
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:27:18 Pacific Daylight Time

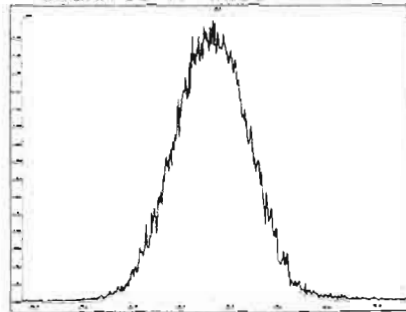
M 366.9792 R 10593



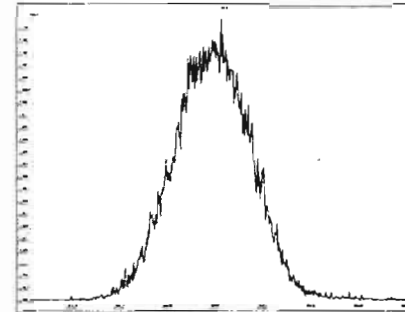
M 380.9760 R 11159



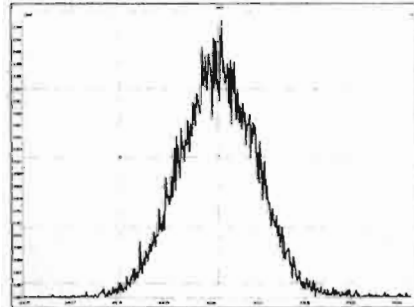
M 392.9760 R 10866



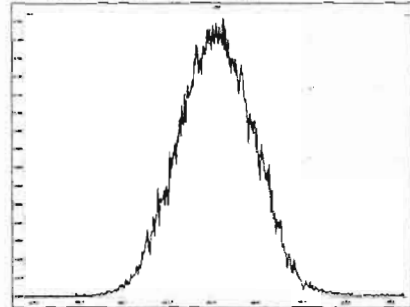
M 404.9760 R 11061



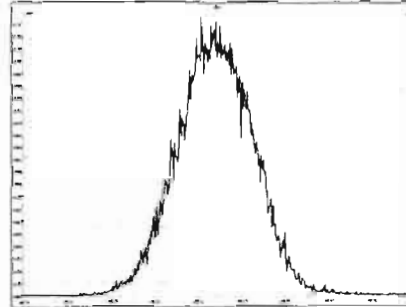
M 416.9760 R 11162



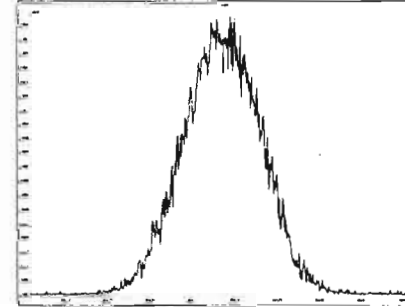
M 430.9728 R 11161



M 442.9728 R 11260



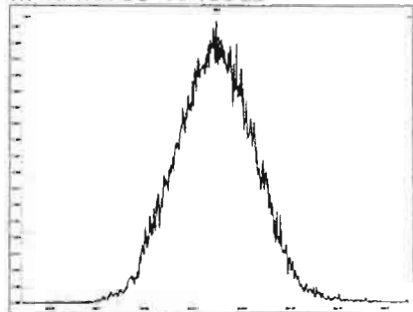
M 454.9728 R 11059



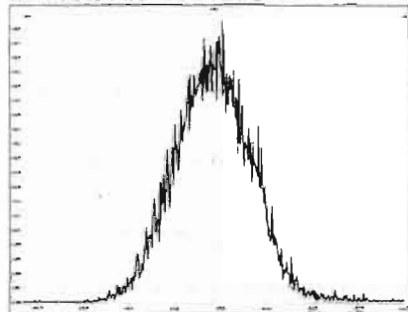
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:27:55 Pacific Daylight Time

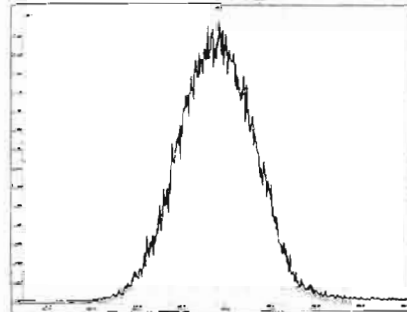
M 404.9760 R 10965



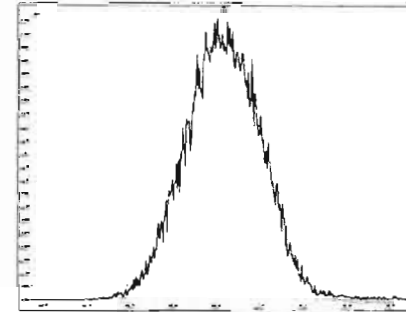
M 416.9760 R 11060



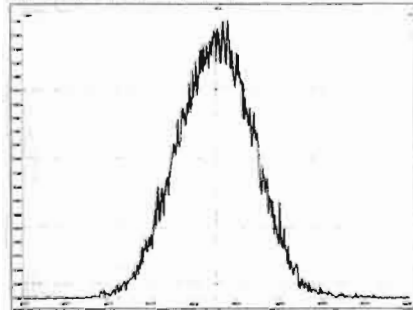
M 430.9728 R 11112



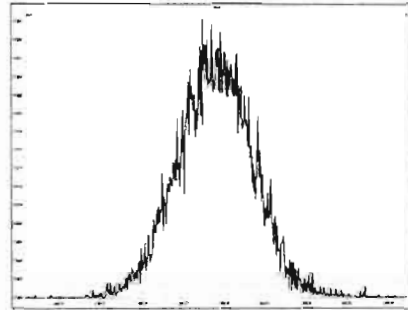
M 442.9728 R 10917



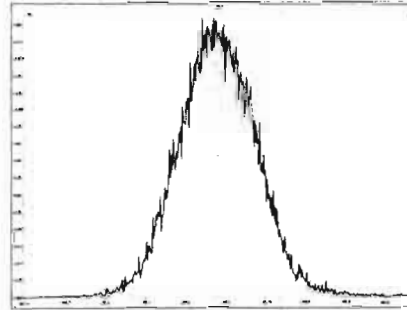
M 454.9728 R 11417



M 466.9728 R 11737



M 480.9696 R 11012



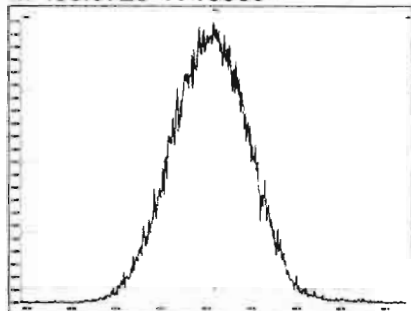
Experiment Calibration Report

MassLynx 4.1 SCN815

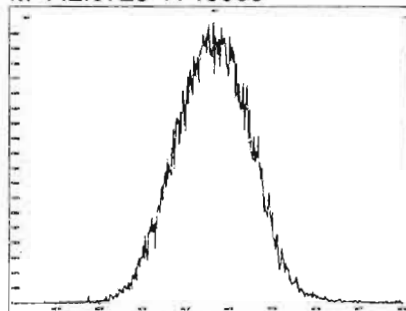
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:28:37 Pacific Daylight Time

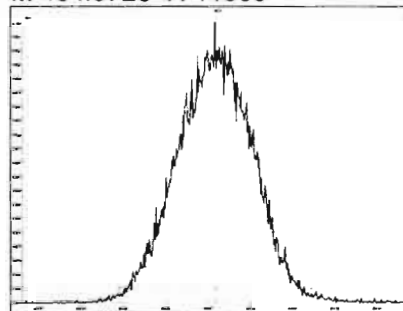
M 430.9728 R 10683



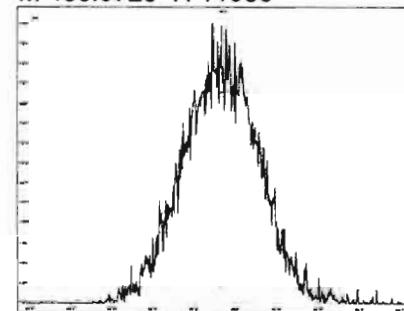
M 442.9728 R 10966



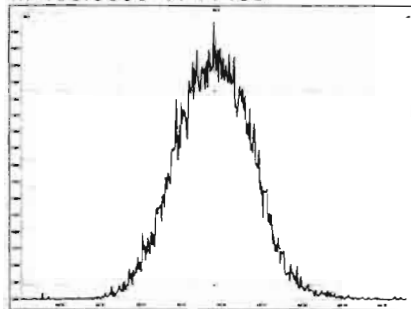
M 454.9728 R 11363



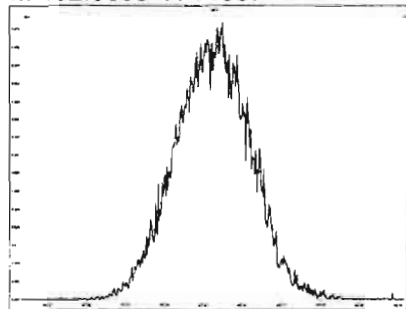
M 466.9728 R 11960



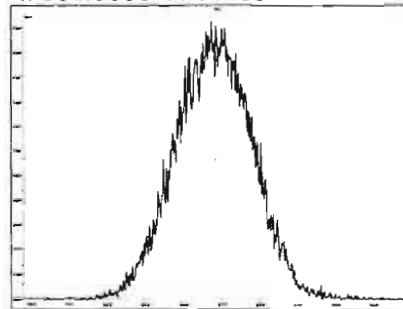
M 480.9696 R 11465



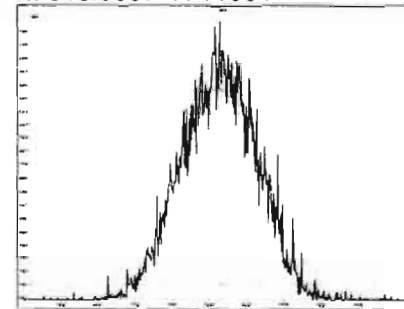
M 492.9696 R 11367



M 504.9696 R 11466



M 516.9697 R 11901



Dataset: U:\VG12.PRO\Results\200318R1\200318R1-CPSM.qld

Last Altered: Wednesday, March 18, 2020 16:21:07 Pacific Daylight Time

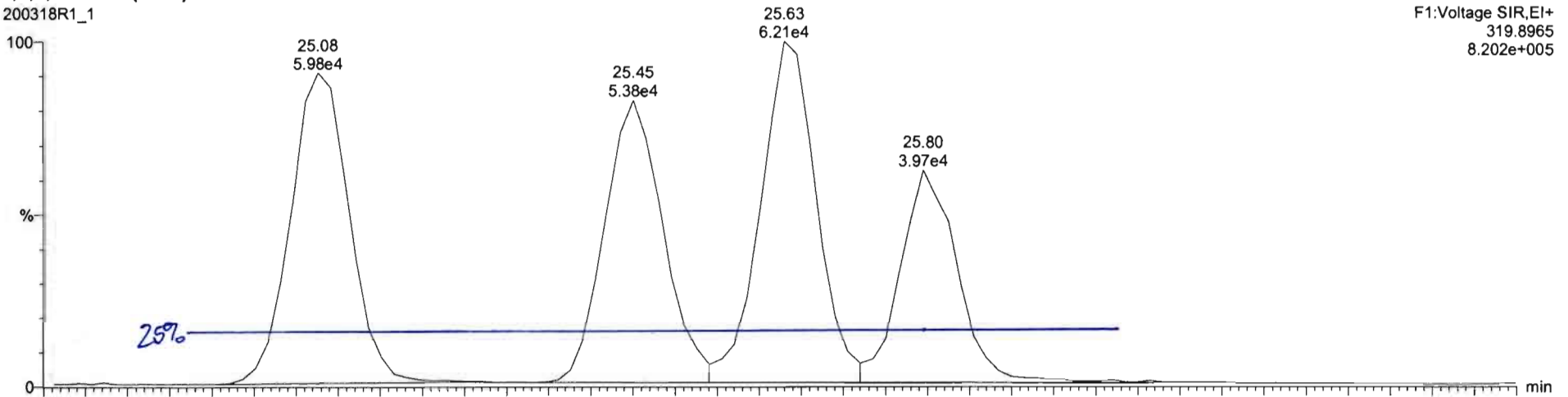
Printed: Wednesday, March 18, 2020 16:21:39 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

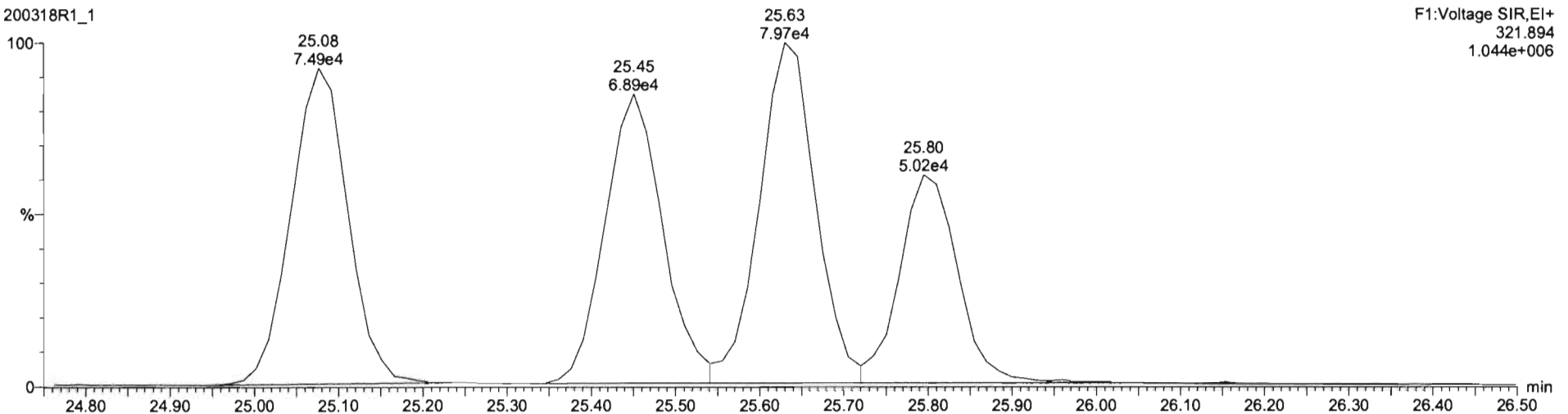
Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200318R1_1



200318R1_1



Dataset: Untitled

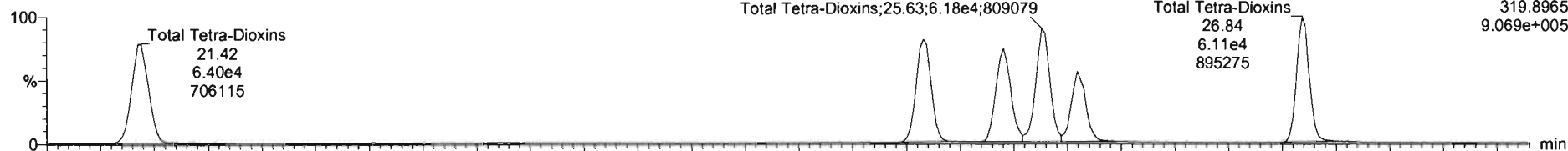
Last Altered: Wednesday, March 18, 2020 16:20:50 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

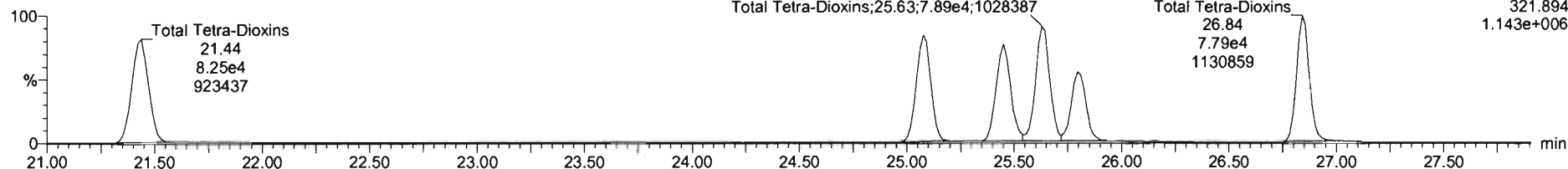
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2,3,7,8-TCDD

200318R1_1

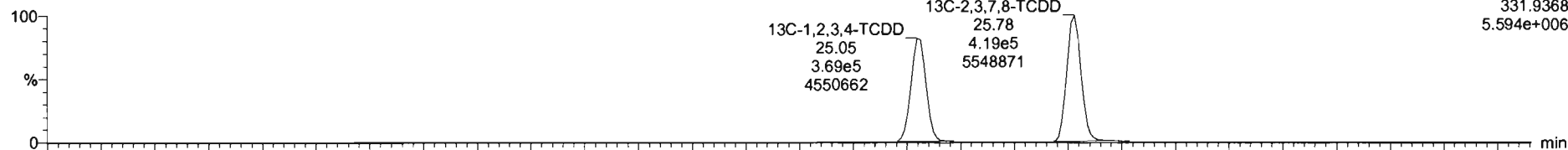


200318R1_1

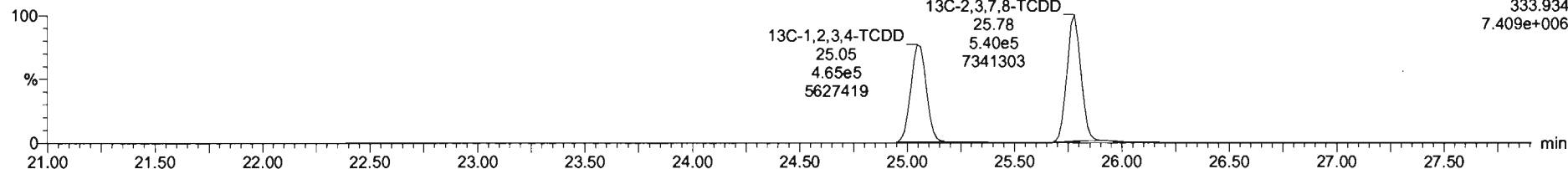


13C-2,3,7,8-TCDD

200318R1_1



200318R1_1



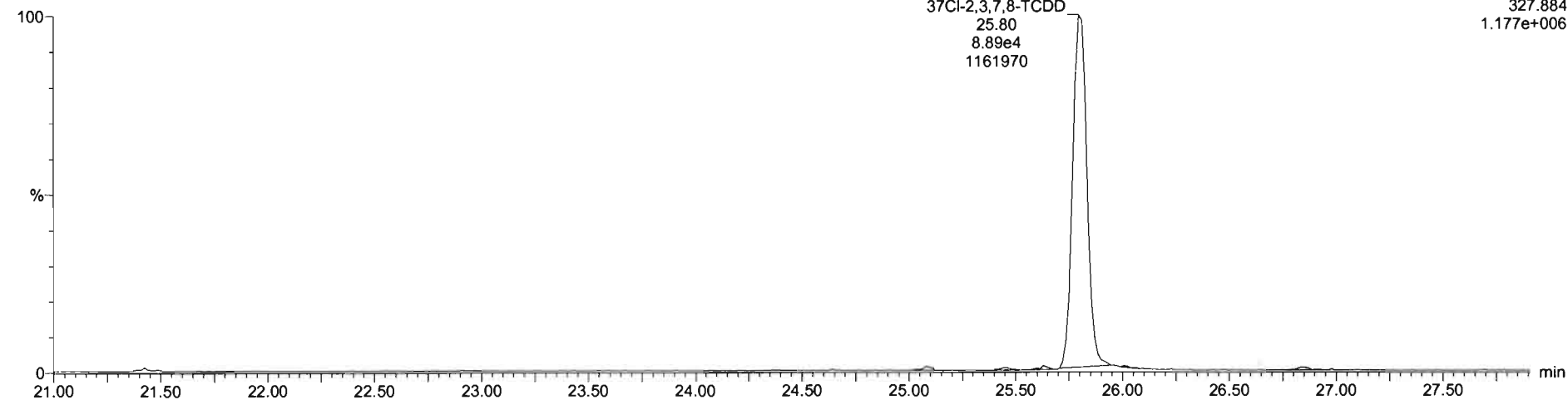
Dataset: Untitled

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Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

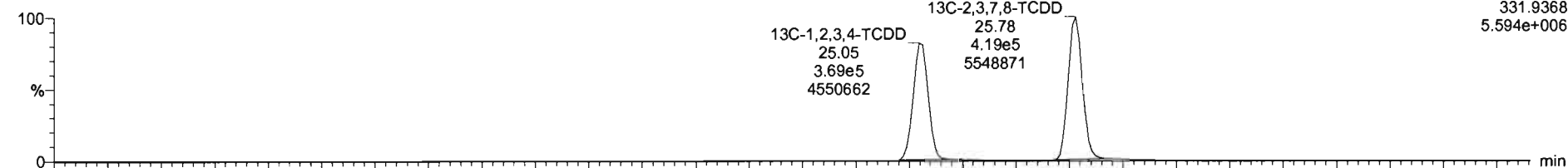
37Cl-2,3,7,8-TCDD

200318R1_1

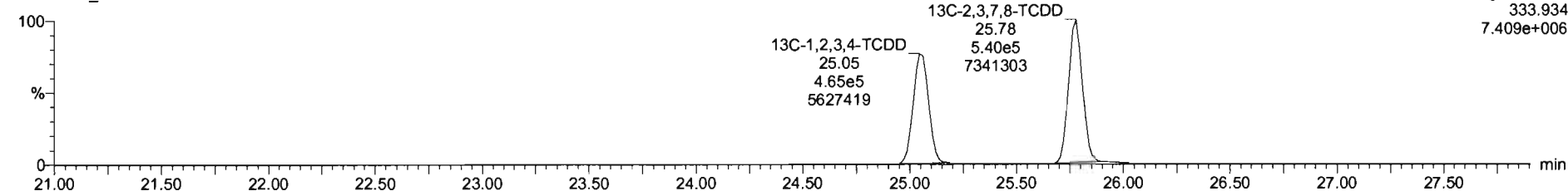


13C-1,2,3,4-TCDD

200318R1_1



200318R1_1



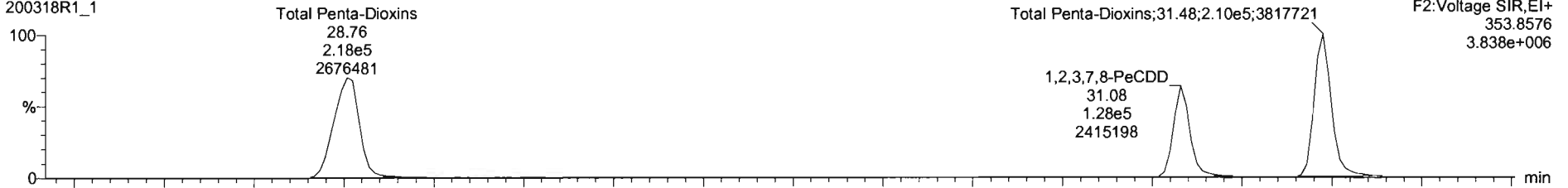
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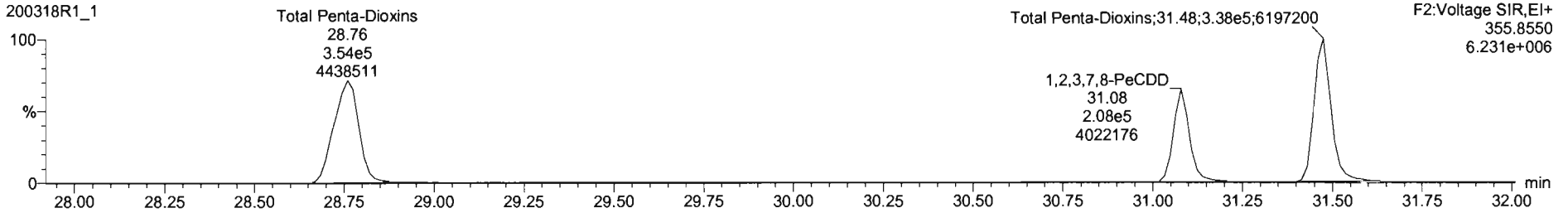
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1,2,3,7,8-PeCDD

200318R1_1

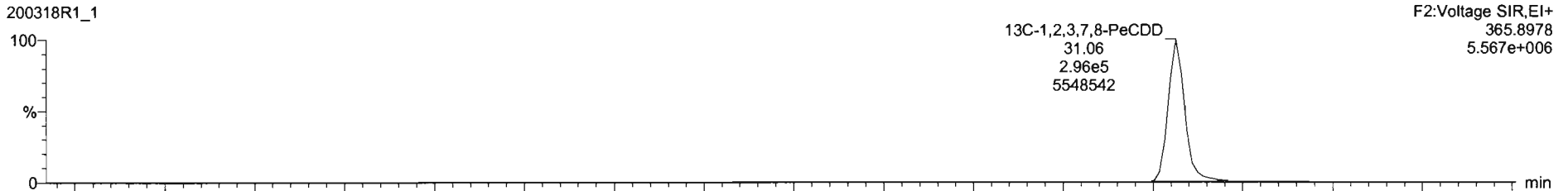


200318R1_1

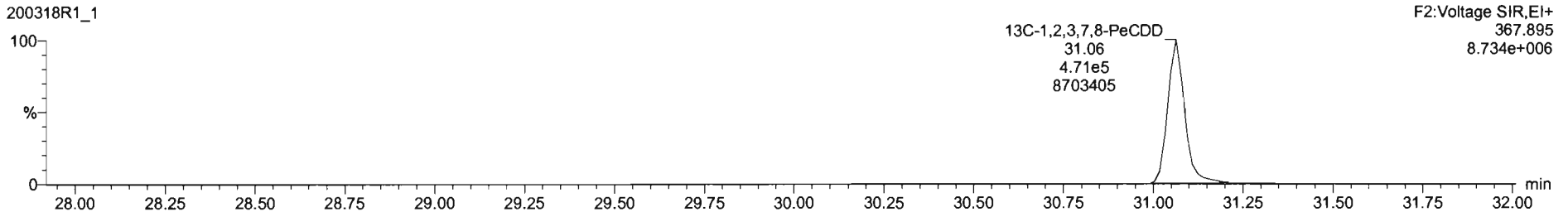


13C-1,2,3,7,8-PeCDD

200318R1_1



200318R1_1



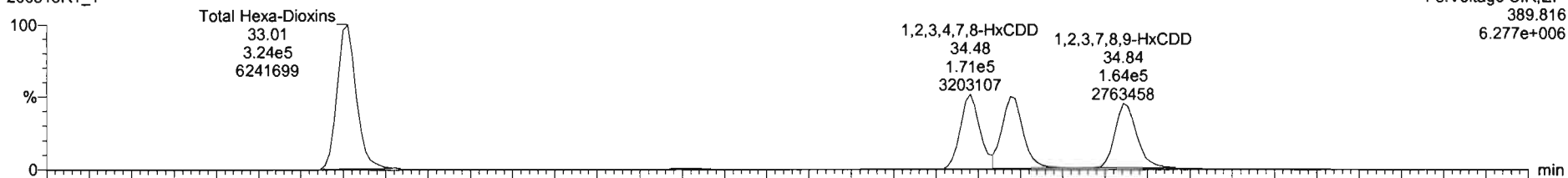
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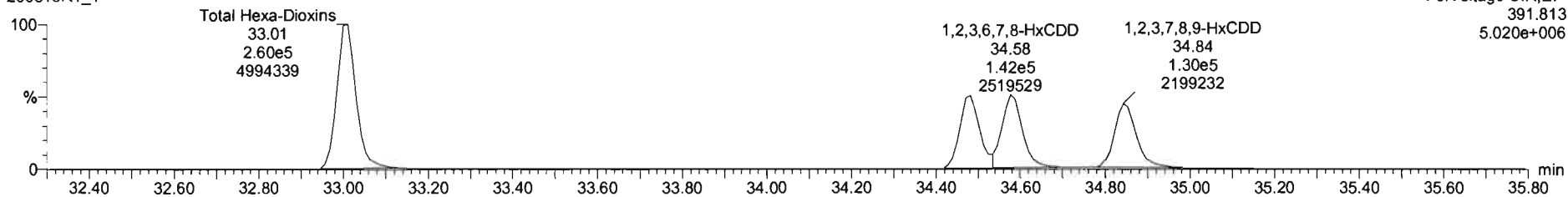
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1,2,3,4,7,8-HxCDD

200318R1_1

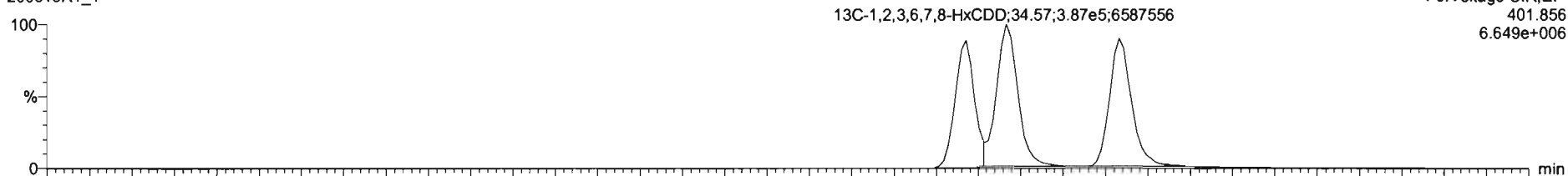


200318R1_1

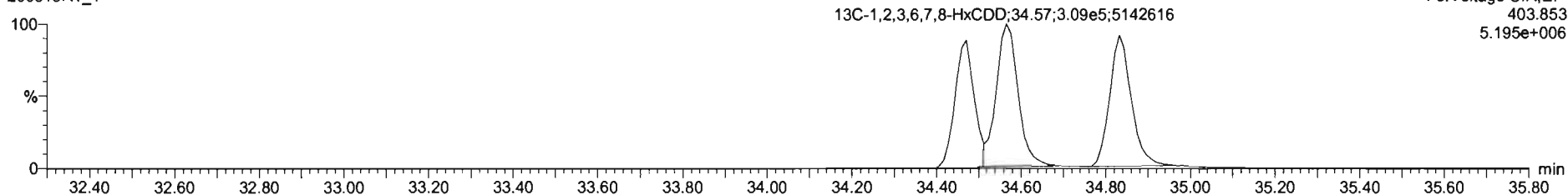


13C-1,2,3,4,7,8-HxCDD

200318R1_1



200318R1_1



Dataset: Untitled

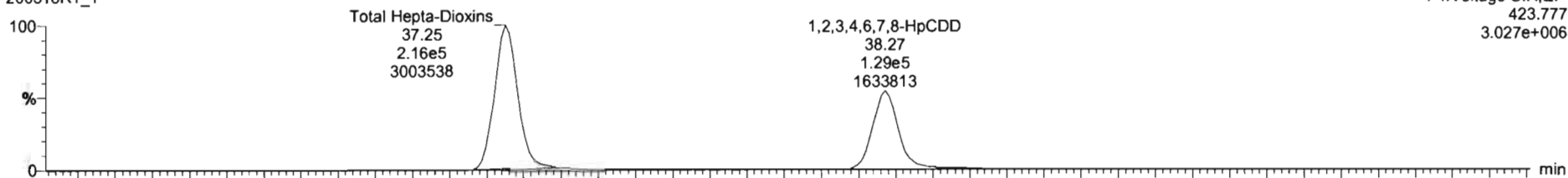
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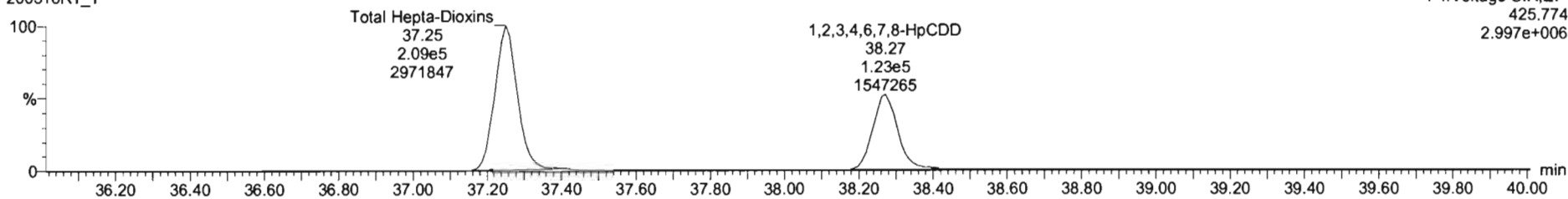
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1,2,3,4,6,7,8-HpCDD

200318R1_1

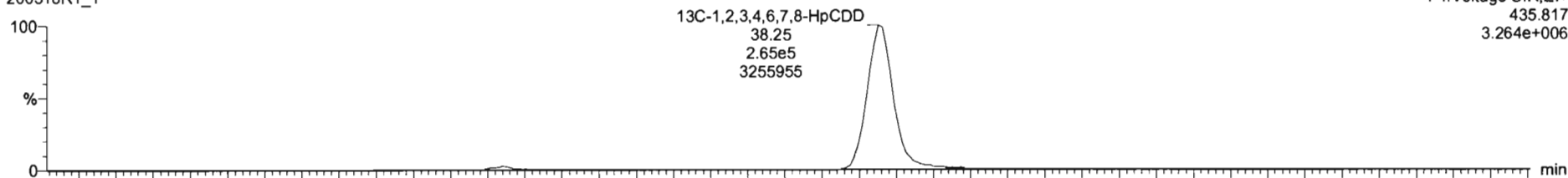


200318R1_1

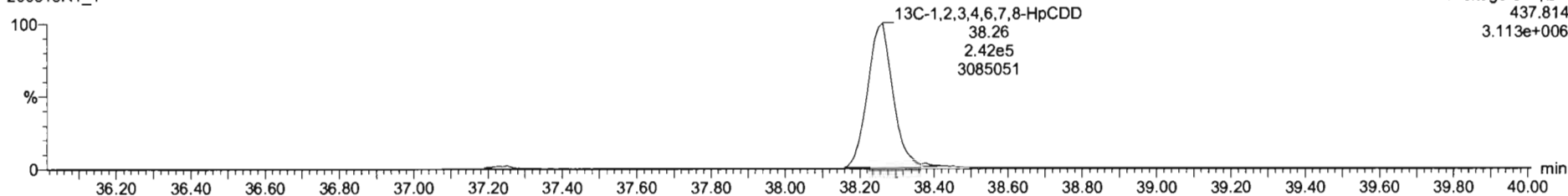


13C-1,2,3,4,6,7,8-HpCDD

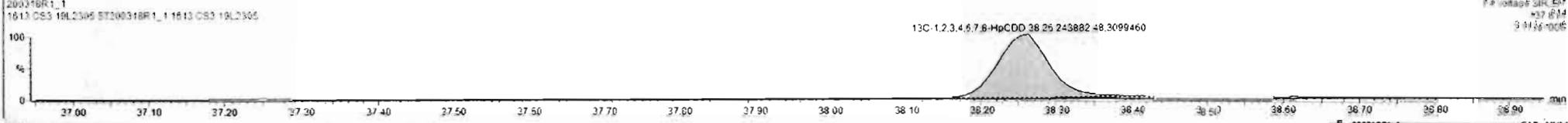
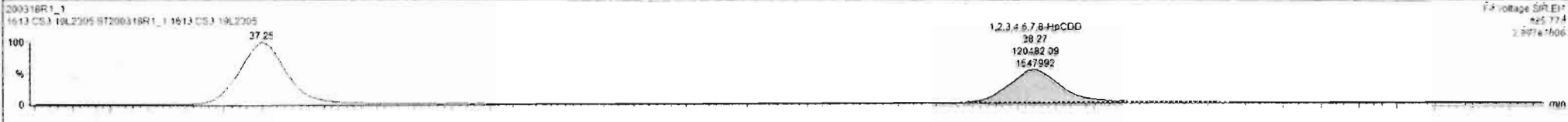
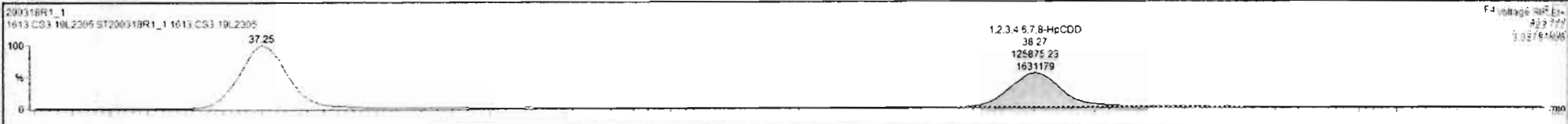
200318R1_1



200318R1_1



#	Name	Resp	S Resp	Pred RA	RA	My	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.74e4	9.60e5	0.77	0.80	NO	0.9835	25.81	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.62	0.61	NO	0.9212	31.98	31.08	NO	1.001	1.000	47.6	95.1	NO
3	1,2,3,4,7,8-HxCDD	2.10e5	5.50e5	1.24	1.24	NO	1.1325	34.46	34.48	NO	1.000	1.000	49.7	99.3	NO
4	1,2,3,6,7,8-HxCDD	3.20e5	6.97e5	1.24	1.25	NO	0.9944	34.57	34.58	NO	1.000	1.000	46.6	93.2	NO
5	1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.24	1.26	NO	0.9674	34.84	34.84	NO	1.000	1.000	48.1	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	1.04	NO	1.0061	36.26	36.27	NO	1.000	1.001	48.4	96.8	NO
7	OCDD	4.75e5	9.90e5	0.89	0.92	NO	1.0515	41.31	41.32	NO	1.000	1.000	91.2	91.2	NO
8	1,2,7,8-TCDF	1.13e5	1.32e6	0.77	0.75	NO	0.9154	24.89	24.81	NO	1.001	1.001	9.36	93.6	NO
9	1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.000	49.1	98.2	NO
10	1,2,3,4,7,8-PeCDF	5.29e5	1.09e6	1.55	1.58	NO	1.0035	30.77	30.76	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	4.10e5	6.09e5	1.24	1.22	NO	1.0381	33.61	33.63	NO	1.000	1.001	48.8	97.6	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.24	1.25	NO	1.0126	33.74	33.75	NO	1.000	1.000	46.7	97.4	NO
13	1,2,3,4,6,7,8-HpCDF	4.34e5	8.22e5	1.24	1.21	NO	1.0920	34.33	34.33	NO	1.001	1.001	48.4	96.7	NO
14	1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.24	1.23	NO	1.0265	35.17	35.18	NO	1.000	1.000	48.3	96.6	NO
15	1,2,3,4,6,7,8-HpCDF	3.34e5	6.61e5	1.04	1.00	NO	1.0483	36.99	36.88	NO	1.001	1.000	48.2	96.4	NO
16	1,2,3,4,7,8,9-HpCDF	2.60e5	4.43e5	1.04	1.02	NO	1.2099	36.99	36.92	NO	1.000	1.000	46.6	97.1	NO
17	OCDF	5.49e5	1.19e6	0.89	0.88	NO	0.9466	41.49	41.50	NO	1.000	1.000	97.2	97.2	NO



Dataset: Untitled

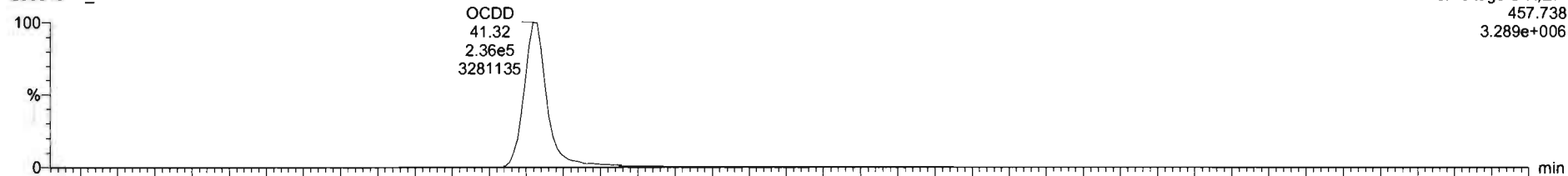
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Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

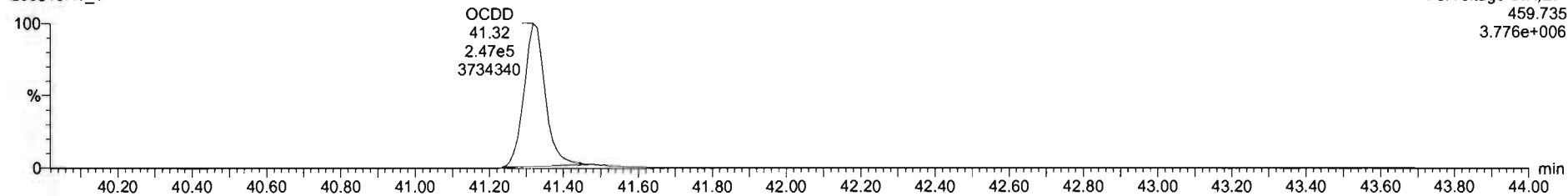
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OCDD

200318R1_1

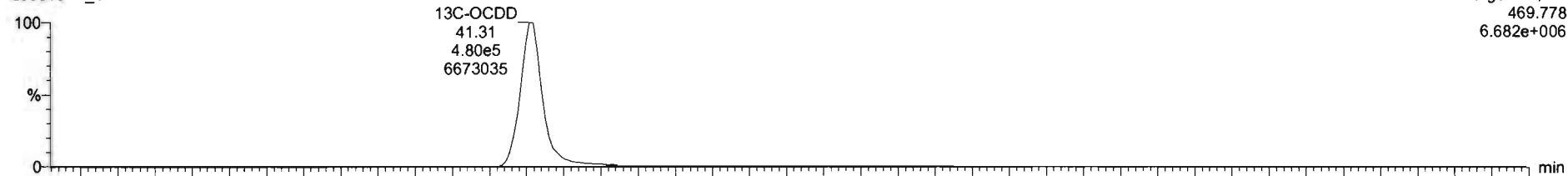


200318R1_1

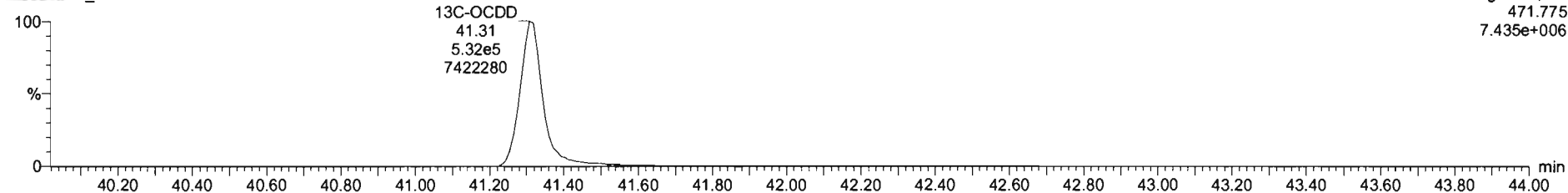


13C-OCDD

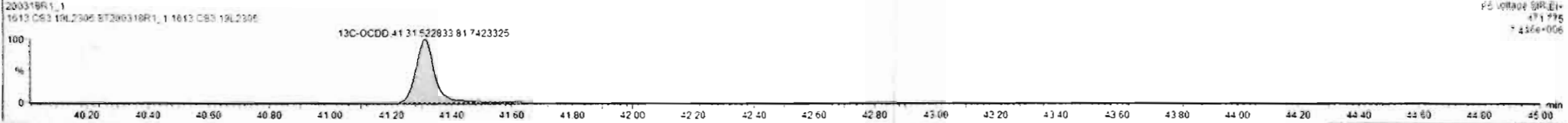
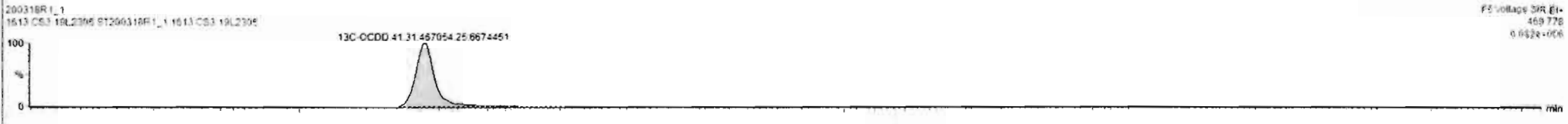
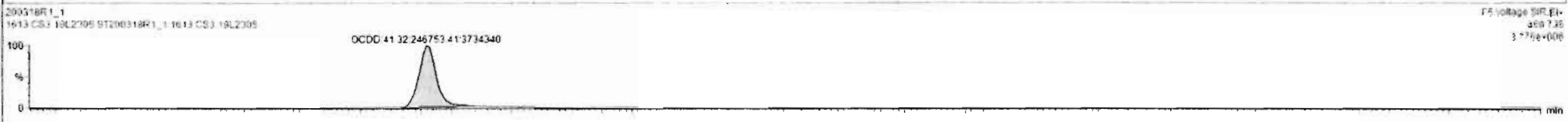
200318R1_1



200318R1_1



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.74e4	9.60e5	0.77	0.80	NO	0.9835	25.81	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.63	0.61	NO	0.9212	31.02	31.08	NO	1.001	1.000	47.6	95.1	NO
3	1,2,3,4,7,8-HxCDD	3.10e5	5.50e5	1.24	1.24	NO	1.1325	34.48	34.48	NO	1.000	1.000	45.7	95.3	NO
4	1,2,3,6,7,8-HxCDD	3.20e5	8.97e5	1.24	1.25	NO	0.9844	34.57	34.58	NO	1.000	1.000	46.6	93.2	NO
5	1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.24	1.26	NO	0.9674	34.84	34.84	NO	1.000	1.000	48.1	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	1.04	NO	1.0081	38.28	38.27	NO	1.000	1.001	46.4	96.8	NO
7	OCDD	4.75e5	8.90e5	0.89	0.92	NO	1.0515	41.31	41.32	NO	1.000	1.000	91.2	91.2	NO
8	1,2,3,7,8-TCDF	1.13e5	1.32e6	0.77	0.75	NO	0.9154	24.80	24.81	NO	1.001	1.001	9.76	93.6	NO
9	1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.000	49.1	98.2	NO
10	1,2,3,4,7,8-PeCDF	5.29e5	1.05e6	1.55	1.58	NO	1.0035	30.77	30.75	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	4.10e5	6.09e5	1.24	1.22	NO	1.0381	33.61	33.63	NO	1.000	1.001	48.6	97.6	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.24	1.25	NO	1.0126	33.74	33.75	NO	1.000	1.000	48.7	97.4	NO
13	1,2,3,4,6,7,8-HpCDF	4.34e5	8.22e5	1.24	1.21	NO	1.0920	34.33	34.32	NO	1.001	1.001	48.4	96.7	NO
14	1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.24	1.23	NO	1.0262	35.17	35.18	NO	1.000	1.000	48.3	96.6	NO
15	1,2,3,4,6,7,8-HpCDF	2.34e5	6.61e5	1.04	1.00	NO	1.0483	36.90	36.88	NO	1.001	1.000	46.2	96.4	NO
16	1,2,3,4,7,8,9-HxCDF	2.60e5	4.43e5	1.04	1.02	NO	1.2995	38.50	38.92	NO	1.000	1.000	48.6	97.1	NO
17	OCDF	5.49e5	1.15e6	0.89	0.88	NO	0.9482	41.49	41.50	NO	1.000	1.000	97.2	97.2	NO

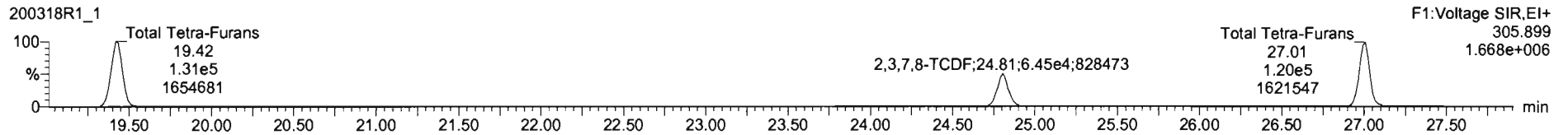
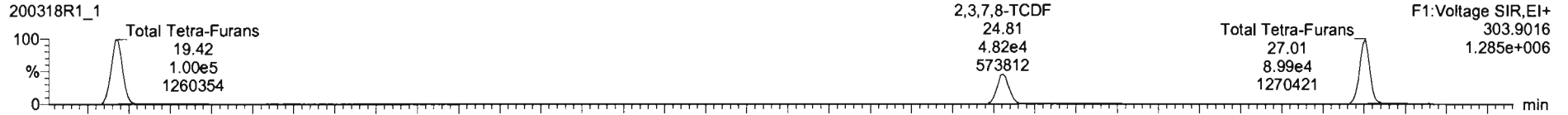


Dataset: Untitled

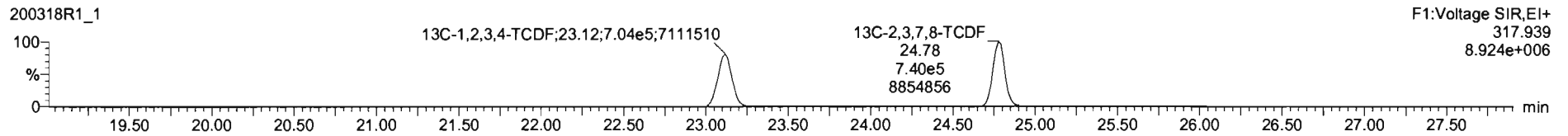
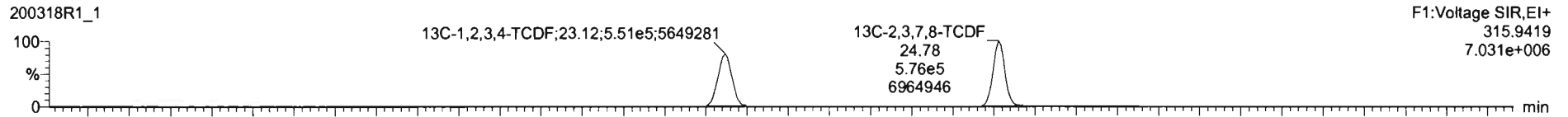
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Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

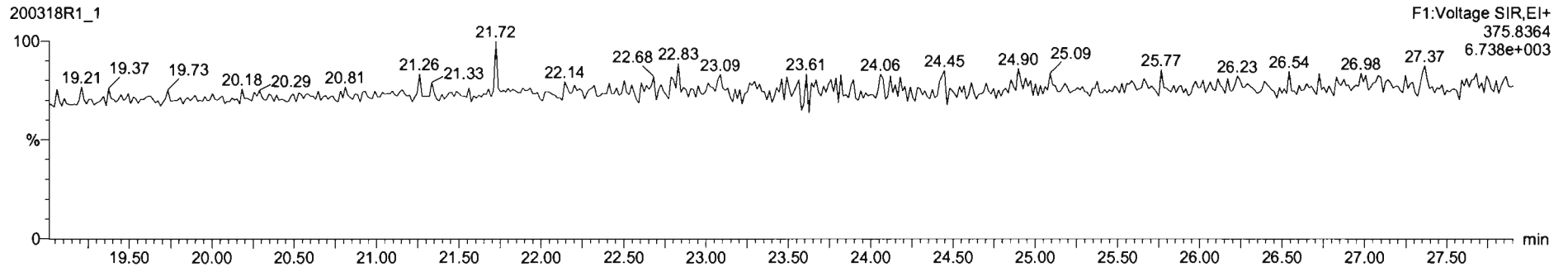
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



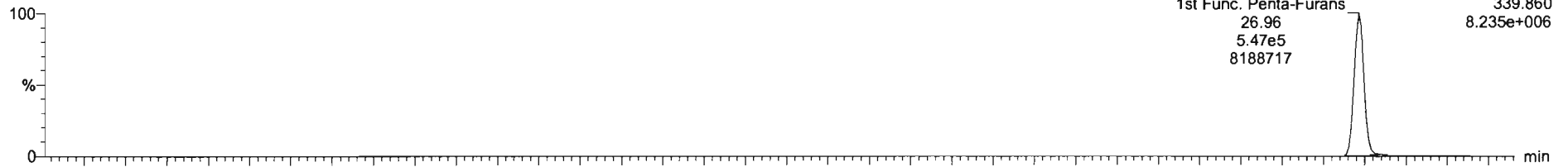
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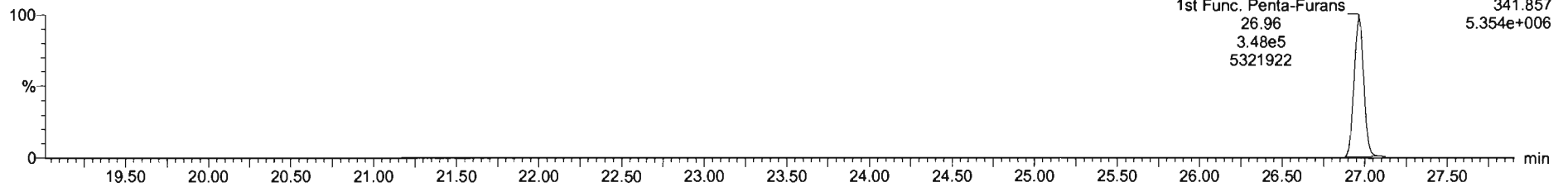
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1st Func. Penta-Furans

200318R1_1

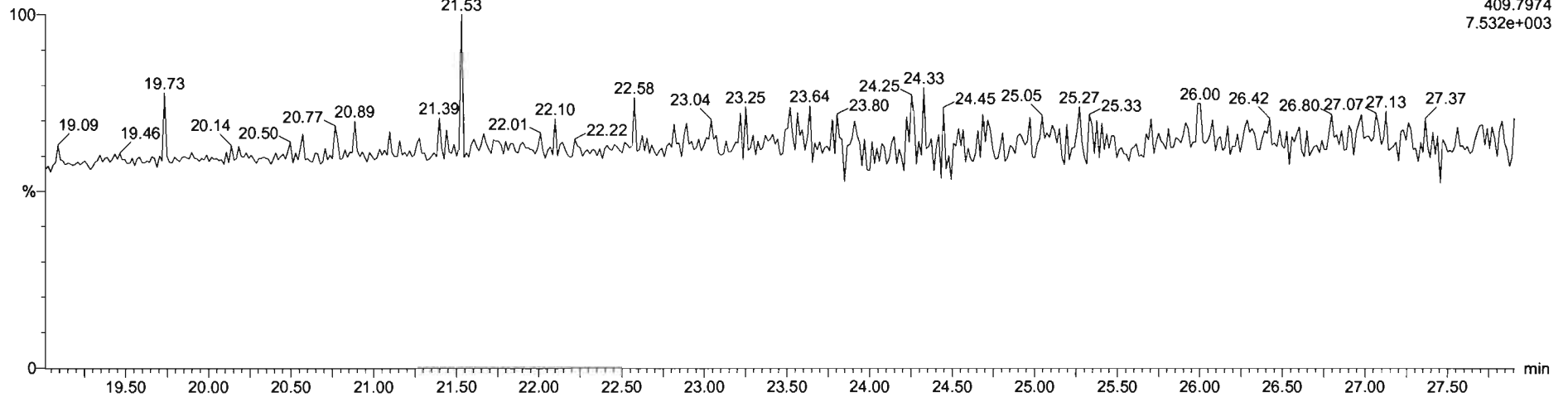


200318R1_1



DPE6

200318R1_1

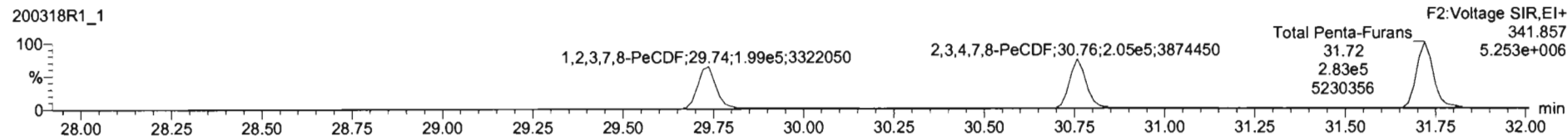
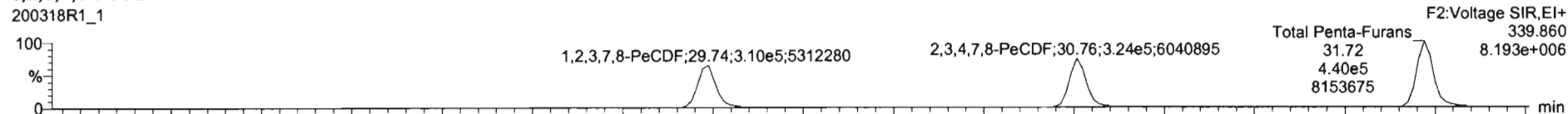


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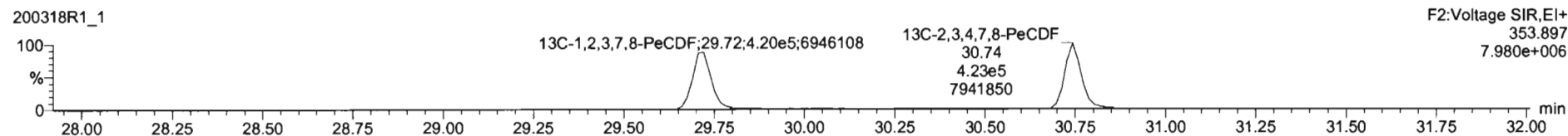
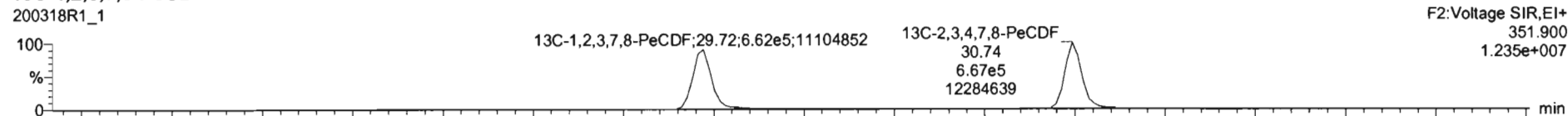
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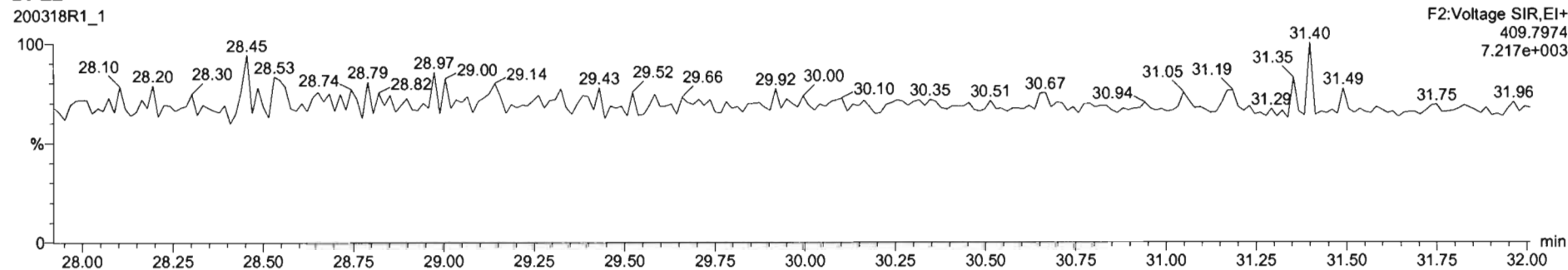
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



Dataset: Untitled

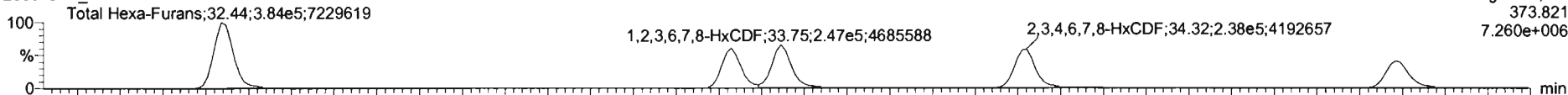
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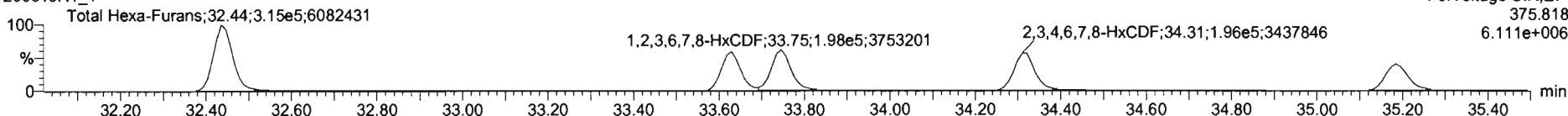
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1,2,3,4,7,8-HxCDF

200318R1_1

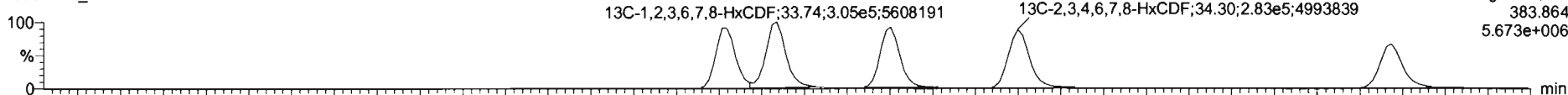


200318R1_1

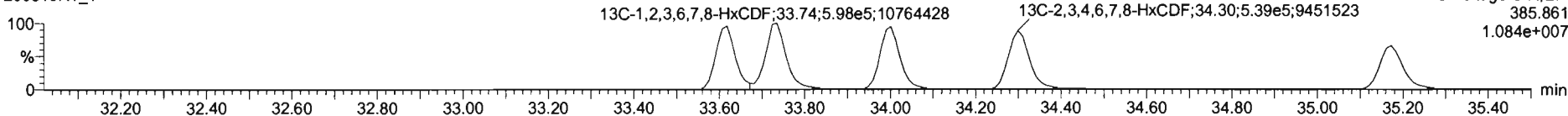


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200318R1_1

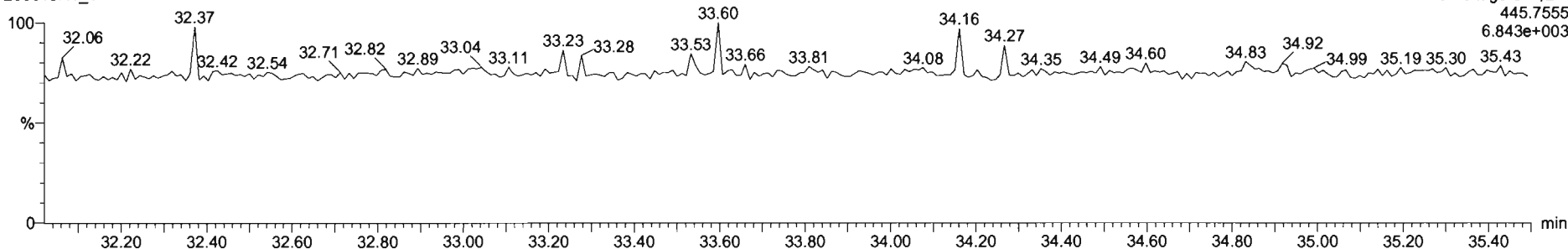


200318R1_1



DPE3

200318R1_1



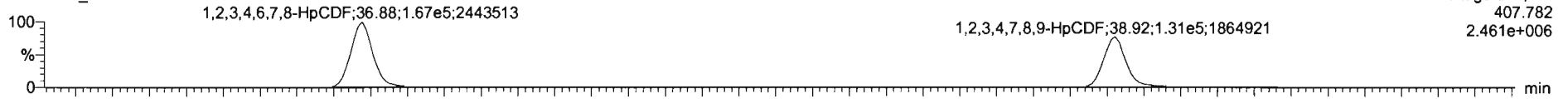
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Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

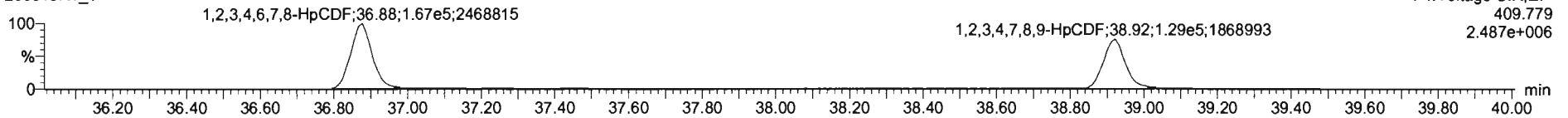
1,2,3,4,6,7,8-HpCDF

200318R1_1



F4:Voltage SIR,EI+
407.782
2.461e+006

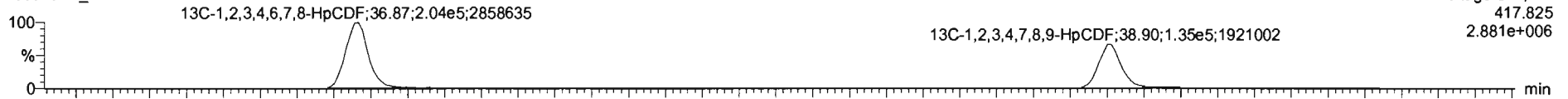
200318R1_1



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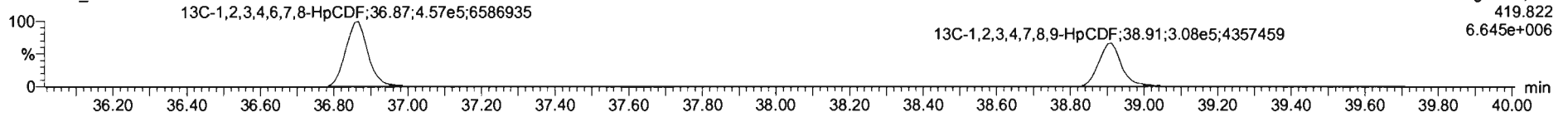
13C-1,2,3,4,6,7,8-HpCDF

200318R1_1



F4:Voltage SIR,EI+
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2.881e+006

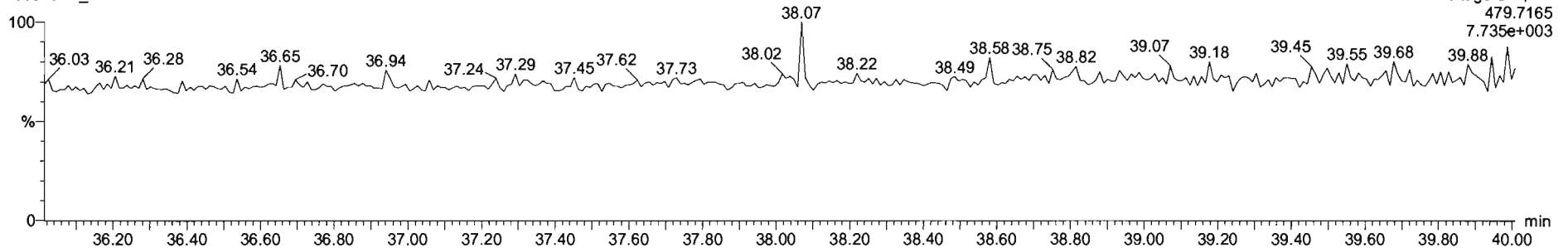
200318R1_1



F4:Voltage SIR,EI+
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6.645e+006

DPE4

200318R1_1



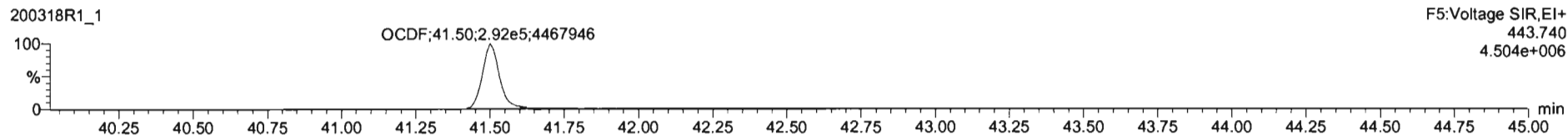
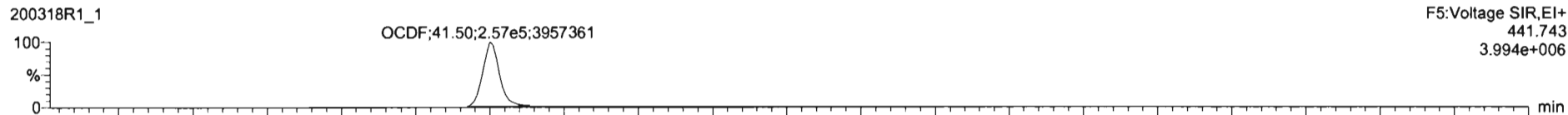
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7.735e+003

Dataset: Untitled

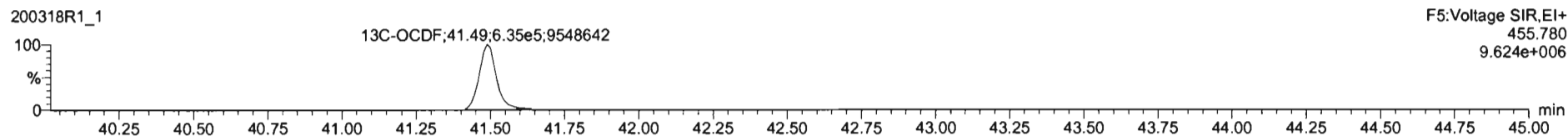
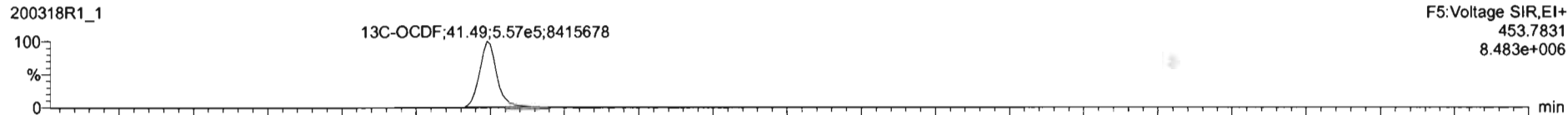
Last Altered: Wednesday, March 18, 2020 16:20:50 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

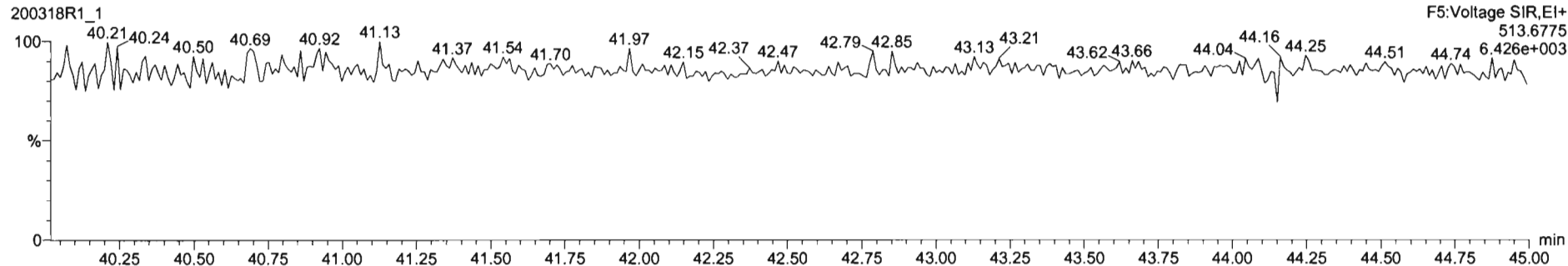
OCDF



13C-OCDF



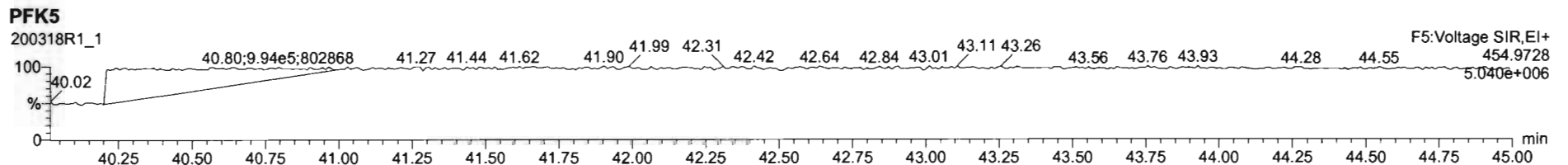
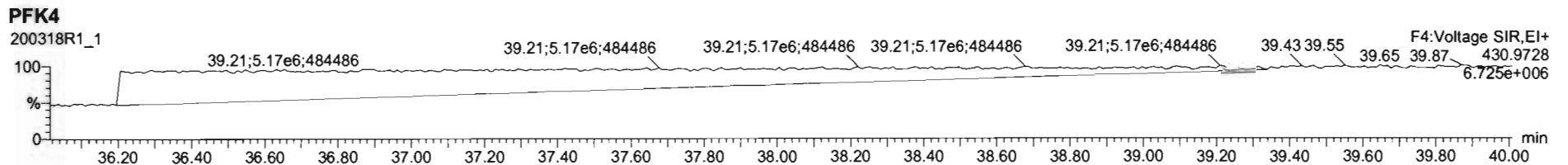
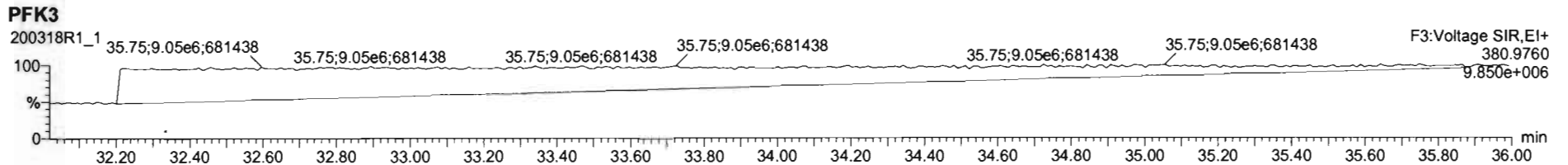
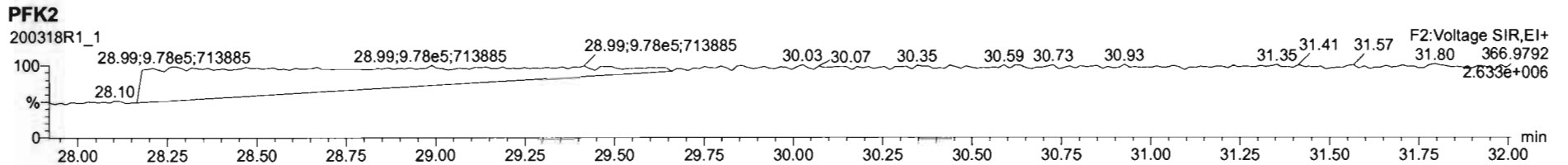
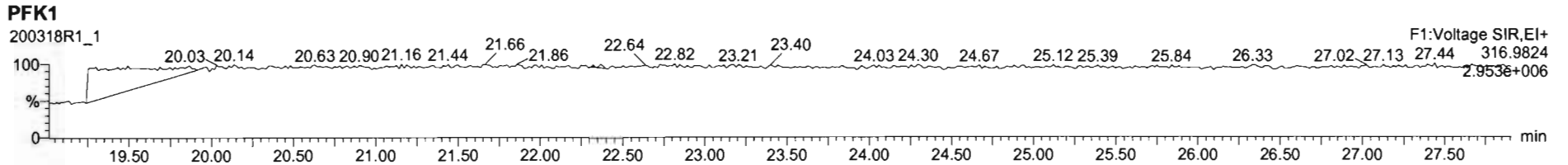
DPE5



Dataset: Untitled

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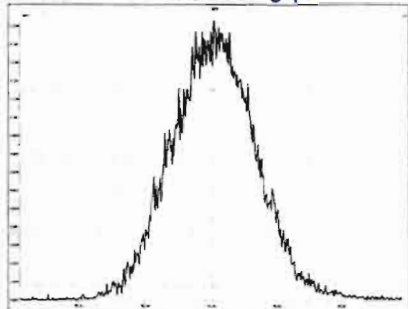


Resolution Check Report

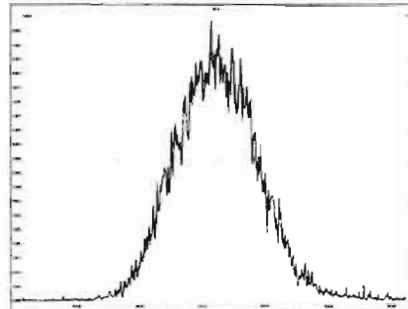
MassLynx 4.1 SCN815

Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

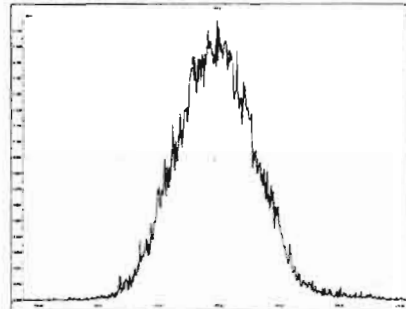
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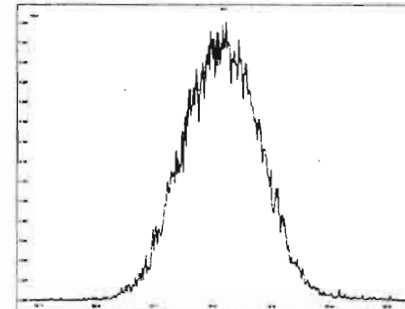
M 304.9824 R 10324



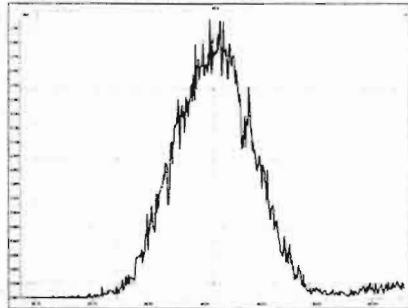
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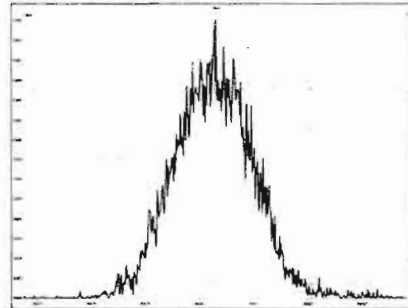
M 330.9792 R 10869



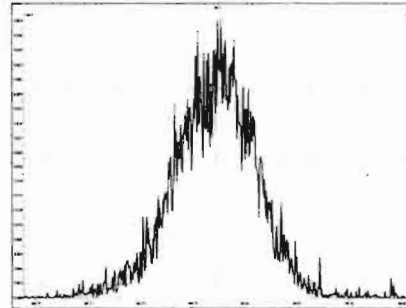
M 342.9792 R 10798



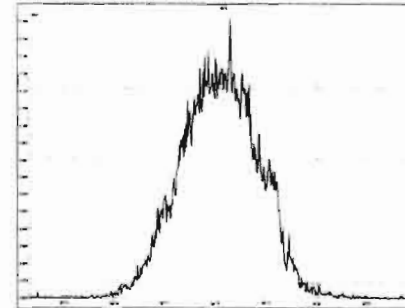
M 354.9792 R 11876



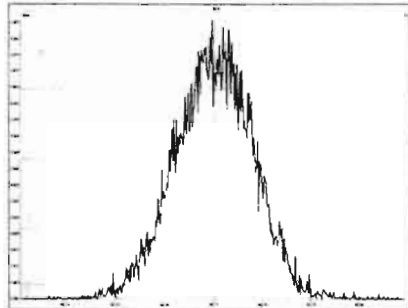
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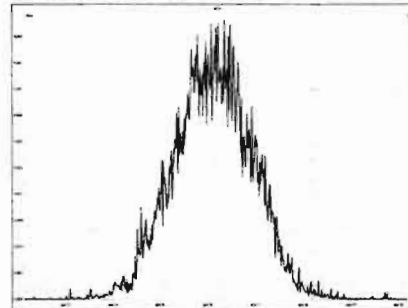
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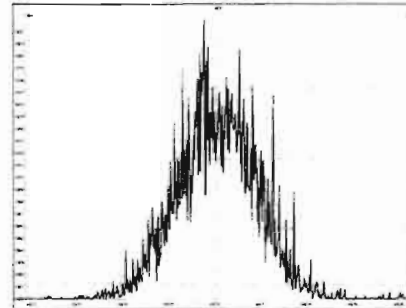
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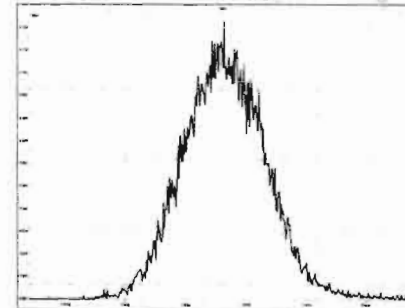
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M 416.9760 R 12502

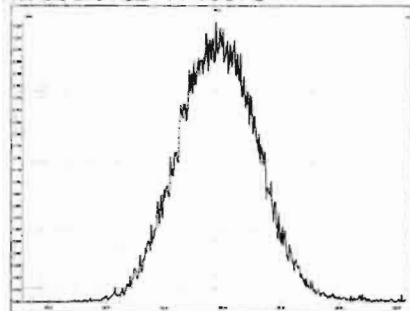


M 318.9792 R 10623

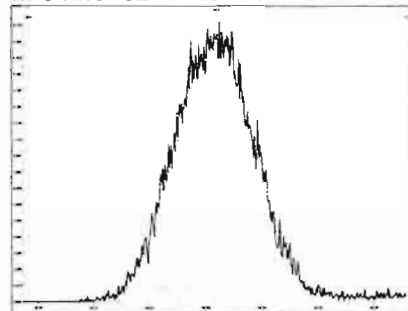


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

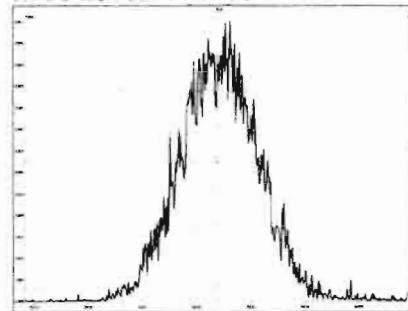
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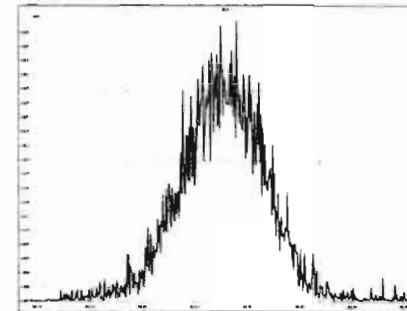
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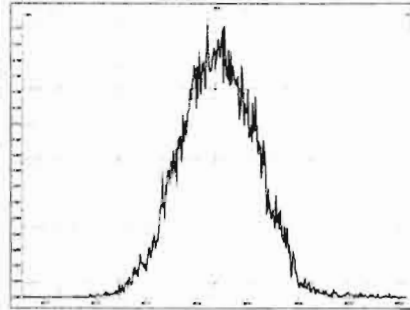
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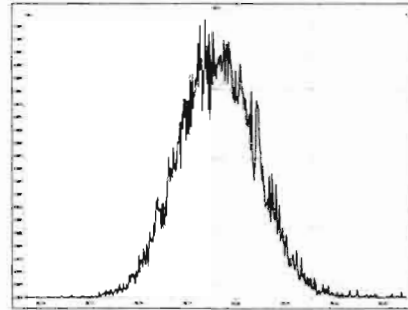
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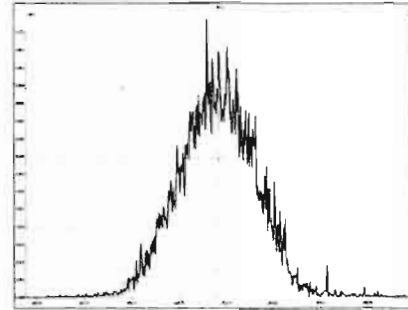
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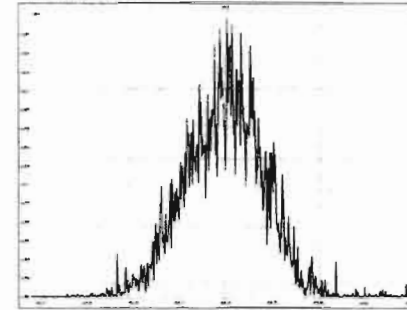
M 392.9760 R 10616



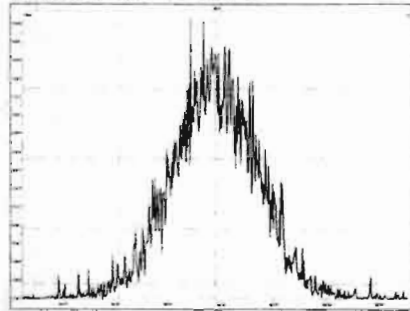
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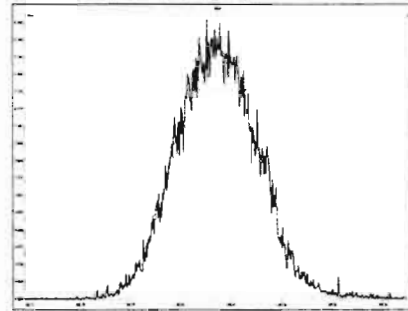
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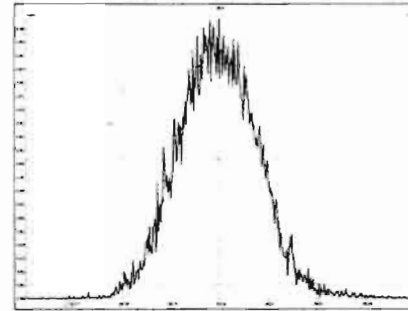
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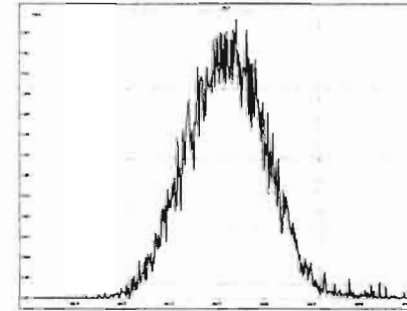
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M 392.9760 R 10846

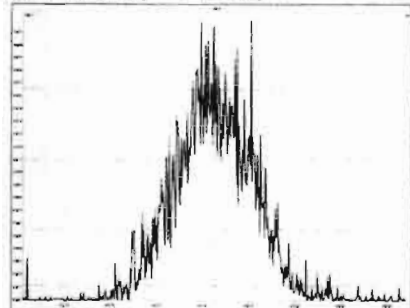


M 404.9760 R 10706

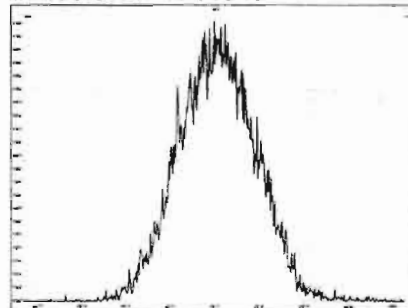


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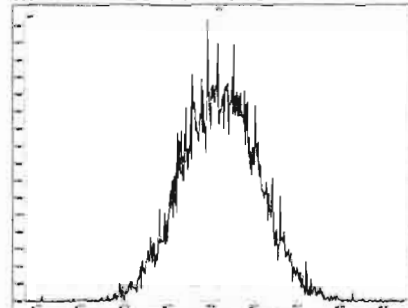
M 416.9760 R 12440



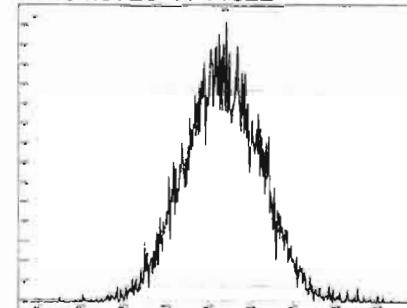
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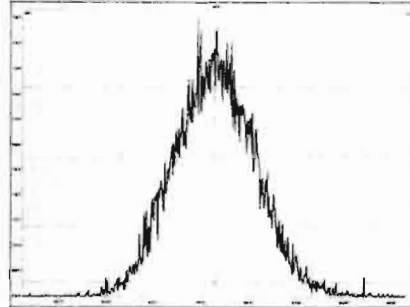
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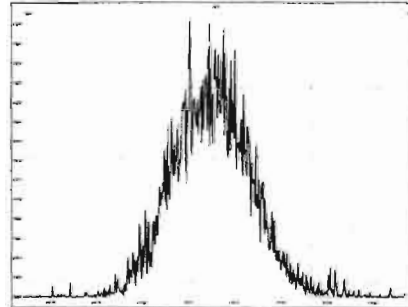
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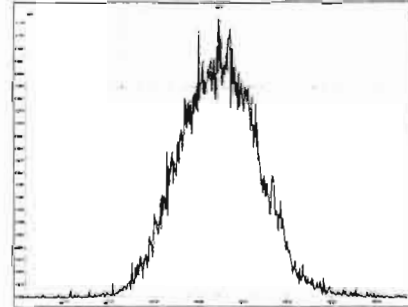
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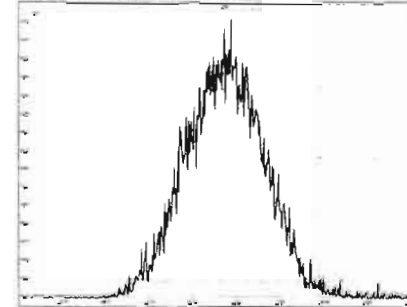
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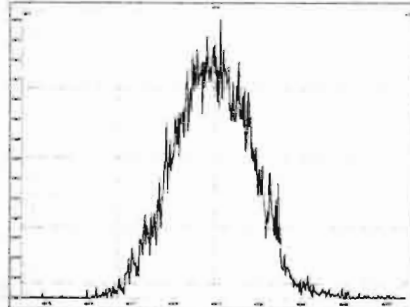
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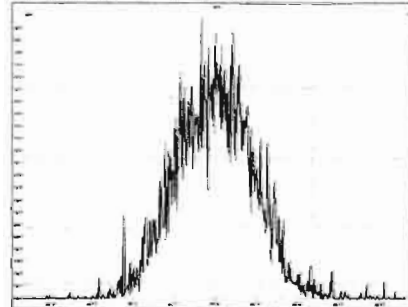
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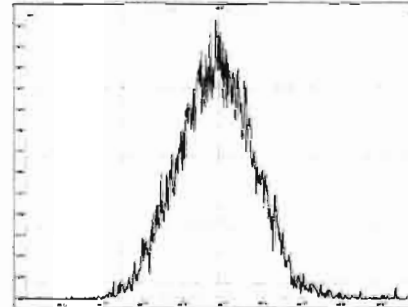
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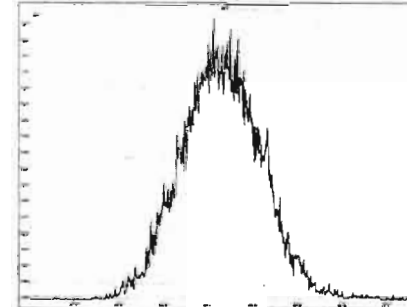
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M 480.9696 R 12019

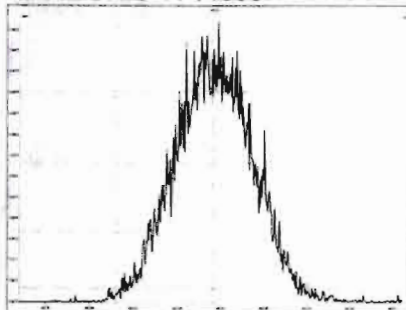


M 430.9728 R 10848

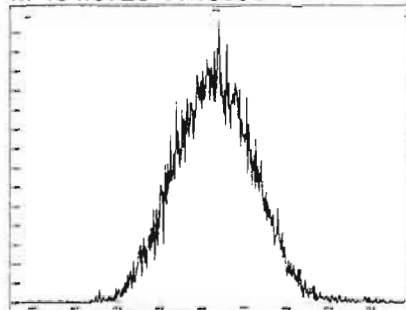


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

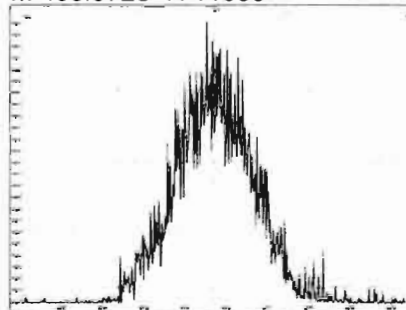
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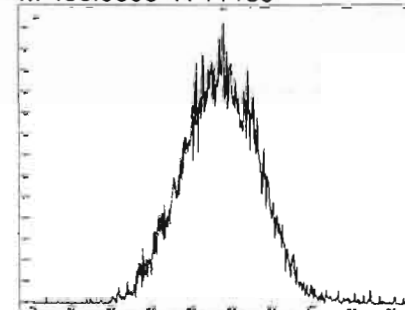
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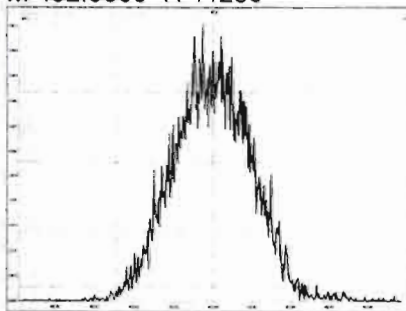
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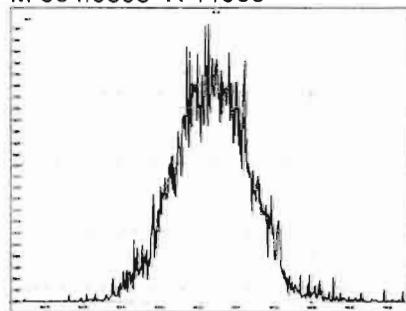
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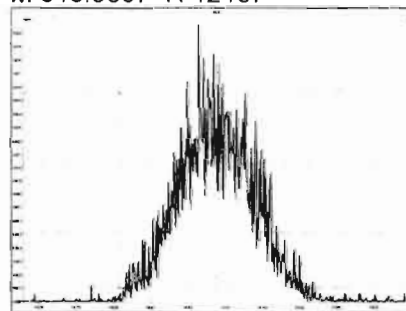
M 492.9696 R 11256



M 504.9696 R 11900



M 516.9697 R 12107



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200318R2-1

Reviewed By: CT 03/20/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	_____
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>
- Bottle position verified?	_____	<u>GRB</u>

Mass resolution ≥

5k 6-8K 8K ~~10K~~
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-2.qld

Last Altered: Thursday, March 19, 2020 07:42:20 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:42:37 Pacific Daylight Time

GEB 02/19/2020

C703/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

ID: ST Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.95e4	9.81e5	0.80	NO	0.983	25.80	25.80	NO	1.001	1.001	9.2801	92.8	NO
2	2 1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.62	NO	0.921	31.07	31.08	NO	1.001	1.001	47.332	94.7	NO
3	3 1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	NO	1.13	34.47	34.47	NO	1.000	1.000	48.307	96.6	NO
4	4 1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.25	NO	0.984	34.56	34.58	NO	1.000	1.001	47.050	94.1	NO
5	5 1,2,3,7,8,9-HxCDD	2.71e5	5.80e5	1.27	NO	0.967	34.83	34.84	NO	1.000	1.001	48.303	96.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.02	NO	1.01	38.26	38.26	NO	1.000	1.000	47.172	94.3	NO
7	7 OCDD	3.92e5	8.05e5	0.89	NO	1.05	41.32	41.33	NO	1.000	1.000	92.610	92.6	NO
8	8 2,3,7,8-TCDF	1.08e5	1.32e6	0.76	NO	0.915	24.79	24.79	NO	1.001	1.001	8.9625	89.6	NO
9	9 1,2,3,7,8-PeCDF	4.89e5	1.04e6	1.59	NO	0.959	29.73	29.72	NO	1.001	1.001	48.766	97.5	NO
10	10 2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.59	NO	1.00	30.77	30.76	NO	1.001	1.000	47.838	95.7	NO
11	11 1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.22	NO	1.04	33.61	33.62	NO	1.000	1.000	46.757	93.5	NO
12	12 1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.23	NO	1.01	33.73	33.74	NO	1.000	1.000	48.330	96.7	NO
13	13 2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.21	NO	1.09	34.32	34.31	NO	1.001	1.001	47.252	94.5	NO
14	14 1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.22	NO	1.03	35.16	35.17	NO	1.000	1.000	47.670	95.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.01	NO	1.05	36.89	36.87	NO	1.001	1.000	47.040	94.1	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.13e5	3.75e5	1.00	NO	1.21	38.90	38.91	NO	1.000	1.000	47.030	94.1	NO
17	17 OCDF	4.34e5	9.69e5	0.89	NO	0.947	41.50	41.51	NO	1.000	1.000	94.561	94.6	NO
18	18 13C-2,3,7,8-TCDD	9.81e5	8.38e5	0.77	NO	1.18	25.77	25.77	NO	1.029	1.029	98.835	98.8	NO
19	19 13C-1,2,3,7,8-PeCDD	7.29e5	8.38e5	0.63	NO	0.864	30.96	31.05	NO	1.236	1.240	100.63	101	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.17e5	7.33e5	1.33	NO	0.754	34.46	34.46	NO	1.014	1.014	93.436	93.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.35e5	7.33e5	1.21	NO	0.925	34.57	34.56	NO	1.017	1.017	93.578	93.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.80e5	7.33e5	1.25	NO	0.829	34.83	34.82	NO	1.025	1.024	95.339	95.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.36e5	7.33e5	1.03	NO	0.598	38.29	38.25	NO	1.127	1.125	99.323	99.3	NO
24	24 13C-OCDD	8.05e5	7.33e5	0.90	NO	0.571	41.44	41.32	NO	1.219	1.216	192.22	96.1	NO
25	25 13C-2,3,7,8-TCDF	1.32e6	1.25e6	0.78	NO	1.09	24.79	24.76	NO	0.990	0.989	97.395	97.4	NO
26	26 13C-1,2,3,7,8-PeCDF	1.04e6	1.25e6	1.60	NO	0.876	29.63	29.71	NO	1.183	1.186	95.769	95.8	NO
27	27 13C-2,3,4,7,8-PeCDF	1.03e6	1.25e6	1.55	NO	0.844	30.64	30.74	NO	1.223	1.227	97.644	97.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.36e5	7.33e5	0.50	NO	1.00	33.61	33.61	NO	0.989	0.989	100.37	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.07e5	7.33e5	0.51	NO	1.12	33.72	33.72	NO	0.992	0.992	98.413	98.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.35e5	7.33e5	0.52	NO	1.04	34.30	34.29	NO	1.009	1.009	96.869	96.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.08e5	7.33e5	0.51	NO	0.873	35.17	35.16	NO	1.035	1.034	94.956	95.0	NO

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-2.qld

Last Altered: Thursday, March 19, 2020 07:42:20 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:42:37 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.62e5	7.33e5	0.44	NO	0.771	36.89	36.86	NO	1.085	1.084	99.435	99.4	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.75e5	7.33e5	0.44	NO	0.519	38.98	38.90	NO	1.147	1.144	98.466	98.5	NO
34	34 13C-OCDF	9.69e5	7.33e5	0.88	NO	0.696	41.62	41.50	NO	1.225	1.221	189.77	94.9	NO
35	35 37Cl-2,3,7,8-TCDD	9.32e4	8.38e5			1.17	25.78	25.78	NO	1.029	1.029	9.4712	94.7	NO
36	36 13C-1,2,3,4-TCDD	8.38e5	8.38e5	0.79	NO	1.00	25.05	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.25e6	1.25e6	0.78	NO	1.00	23.19	23.10	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.33e5	7.33e5	0.51	NO	1.00	33.88	33.99	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		9.81e5			0.983	24.62		NO	0.000		80.278		NO
40	40 Total Penta-Dioxins		7.29e5			0.921	29.96		NO	0.000		210.81		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		240.25		NO
42	42 Total Hepta-Dioxins		4.36e5			1.01	37.64		NO	0.000		128.81		NO
43	43 Total Tetra-Furans		1.32e6			0.915	23.61		NO	0.000		45.287		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		88.593		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		166.26		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		271.97		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		94.070		NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, March 19, 2020 3:30:12 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 3:30:28 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

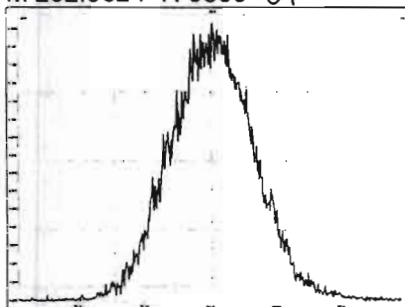
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

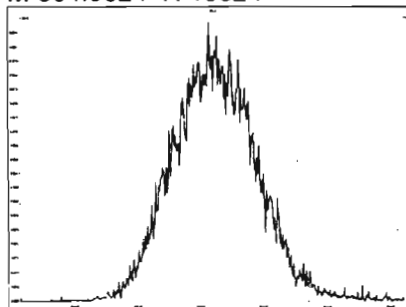
	Name	ID	Acq.Date	Acq.Time
1	200318R2_1	SOLVENT BLANK	19-Mar-20	03:33:06
2	200318R2_2	ST200318R2_1 1613 CS3 19L2305	19-Mar-20	04:19:20
3	200318R2_3	SOLVENT BLANK	19-Mar-20	05:06:59
4	200318R2_4	1904161-16RE5@2X PDI-066SC-A-06-07-191...	19-Mar-20	05:54:38
5	200318R2_5	1903827-05RE3@2X PDI-062SC-B-00-02-191...	19-Mar-20	06:42:16
6	200318R2_6	1903654-05RE3 PDI-075SC-B-00-02-191013 ...	19-Mar-20	07:29:56
7	200318R2_7	1903654-08RE3 PDI-075SC-B-06-08-191013 ...	19-Mar-20	08:17:35
8	200318R2_8	1903654-11RE3 PDI-076SC-B-05-07-191013 ...	19-Mar-20	09:05:12
9	200318R2_9	2000440-01 PDI-066SC-A-09-10-191011 15.89	19-Mar-20	09:52:51
10	200318R2_10	2000440-02 PDI-066SC-A-10-11-191011 16.61	19-Mar-20	10:40:29
11	200318R2_11	2000440-03 PDI-066SC-A-11-12-191011 15.15	19-Mar-20	11:28:07
12	200318R2_12	2000440-04 PDI-066SC-A-12-13-191011 15.88	19-Mar-20	12:15:47
13	200318R2_13	B0C0038-DUP1 Duplicate 15.89	19-Mar-20	13:03:26
14	200318R2_14	2000440-05 PDI-066SC-A-13-14-191011 17.4	19-Mar-20	13:51:04
15	200318R2_15	2000440-06 PDI-066SC-A-14-15-191011 16.24	19-Mar-20	14:38:44

Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

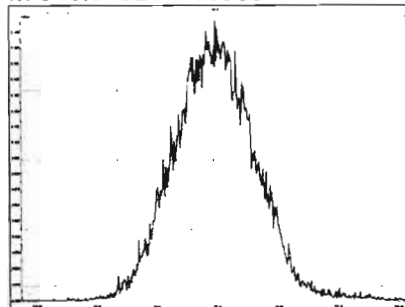
M 292.9824 R 9806 *ok*



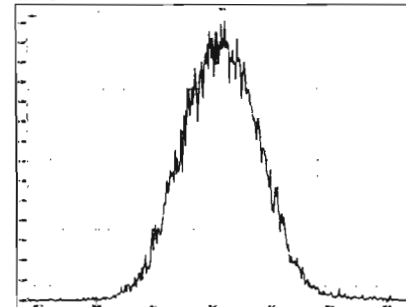
M 304.9824 R 10324



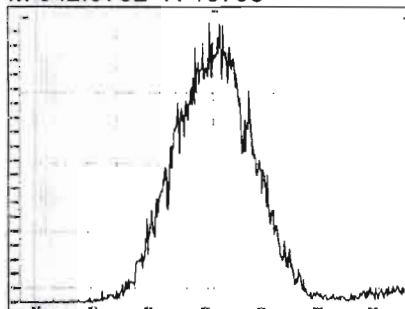
M 318.9792 R 10989



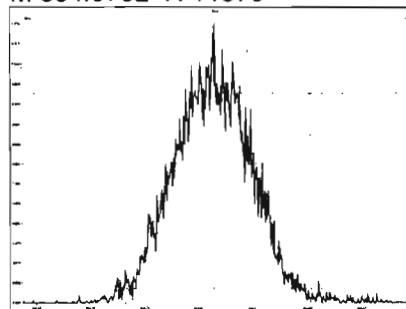
M 330.9792 R 10869



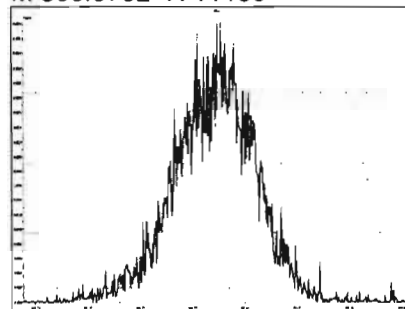
M 342.9792 R 10798



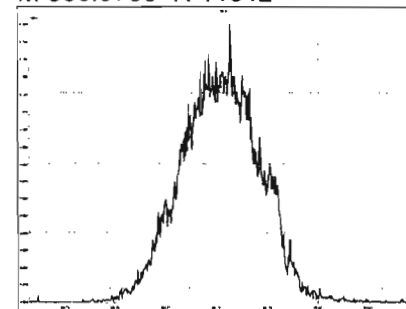
M 354.9792 R 11876



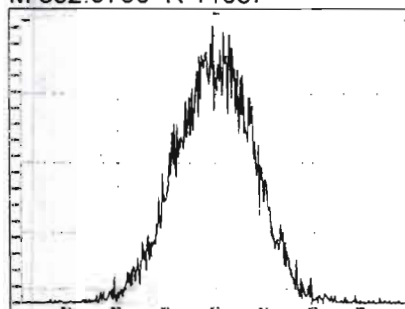
M 366.9792 R 11185



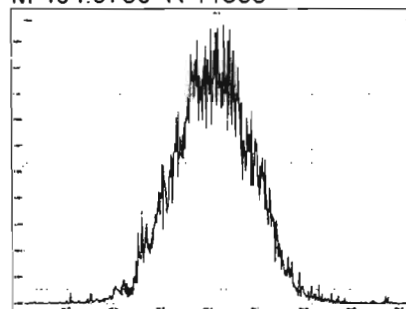
M 380.9760 R 11312



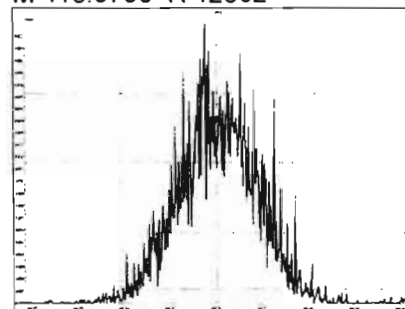
M 392.9760 R 11087



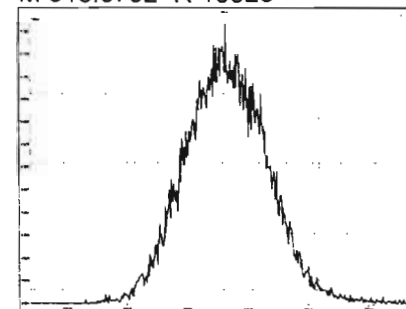
M 404.9760 R 11396



M 416.9760 R 12502

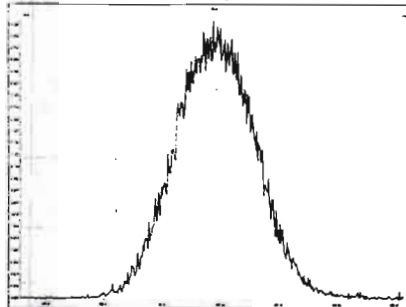


M 318.9792 R 10623

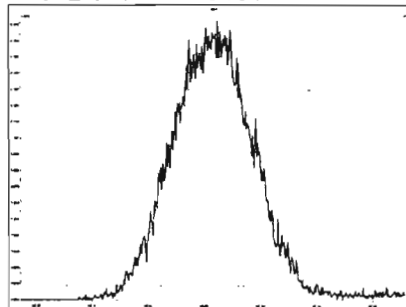


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

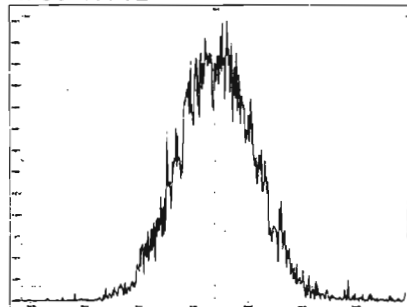
M 330.9792 R 10578



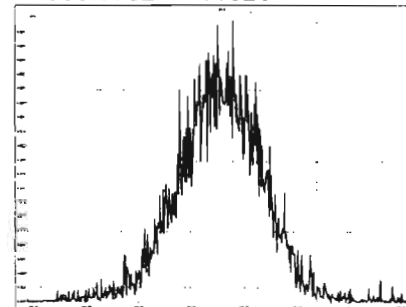
M 342.9792 R 10461



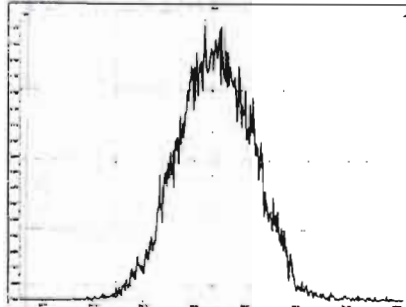
M 354.9792 R 11086



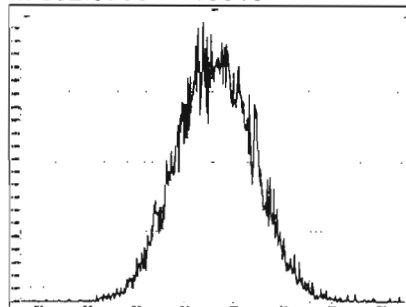
M 366.9792 R 11026



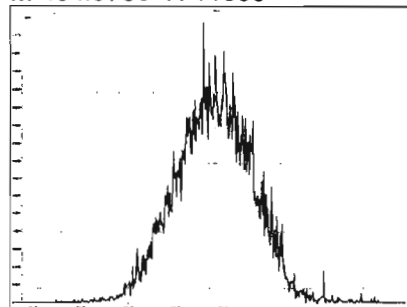
M 380.9760 R 11392



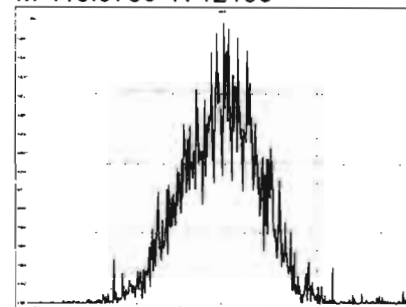
M 392.9760 R 10616



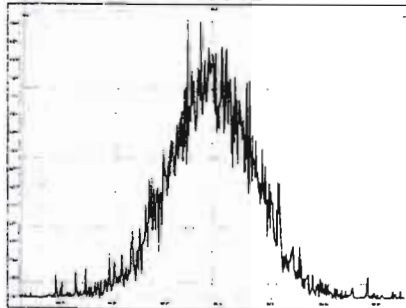
M 404.9760 R 11396



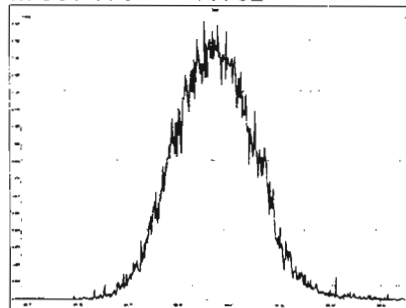
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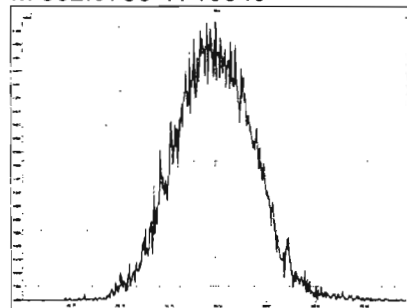
M 366.9792 R 10642



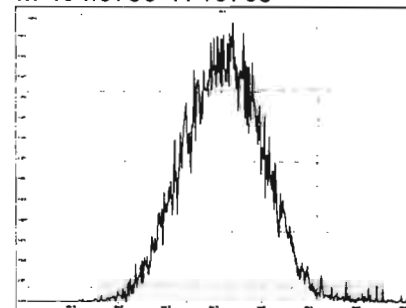
M 380.9760 R 10732



M 392.9760 R 10846

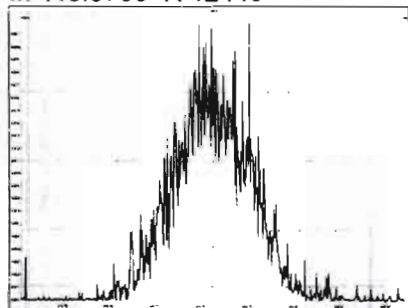


M 404.9760 R 10706

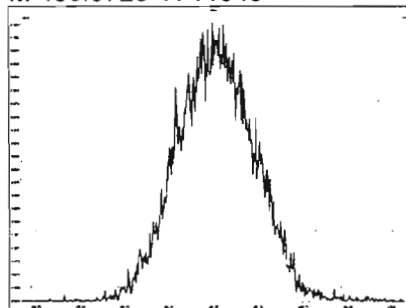


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

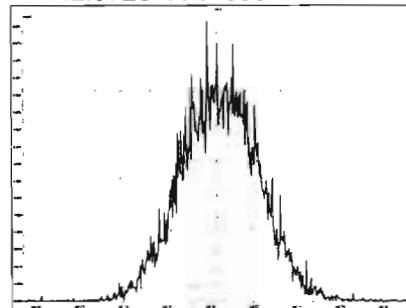
M 416.9760 R 12440



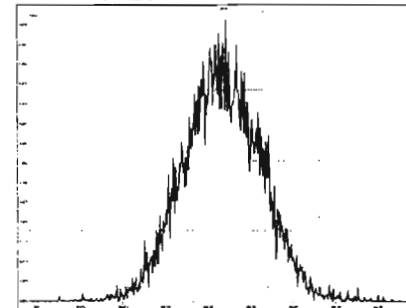
M 430.9728 R 11548



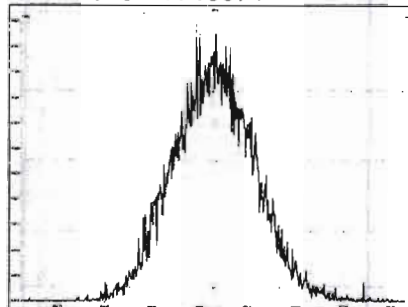
M 442.9728 R 11389



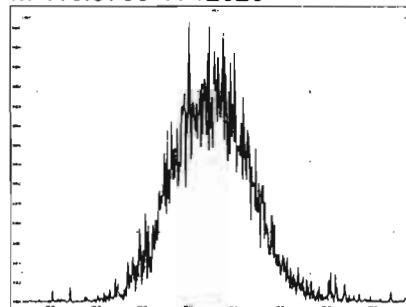
M 454.9728 R 11522



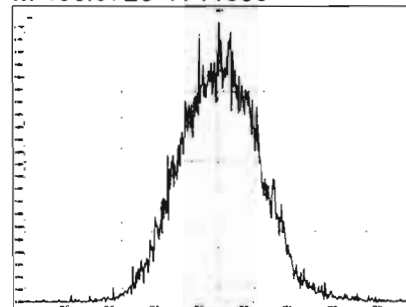
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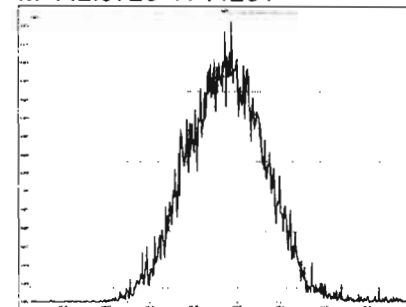
M 416.9760 R 12026



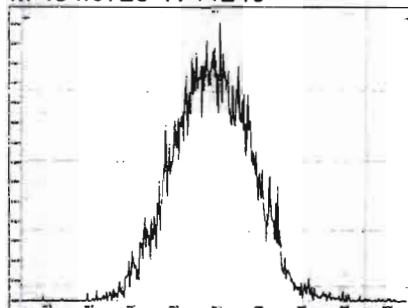
M 430.9728 R 11393



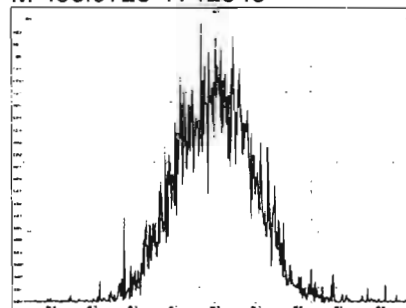
M 442.9728 R 11261



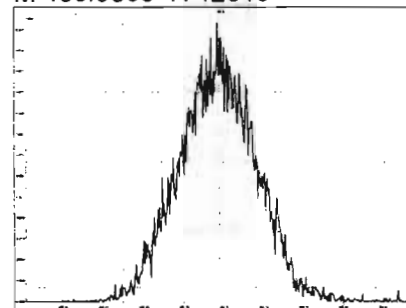
M 454.9728 R 11240



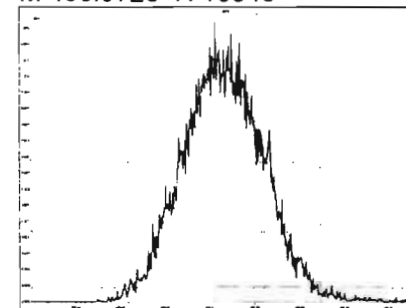
M 466.9728 R 12348



M 480.9696 R 12019

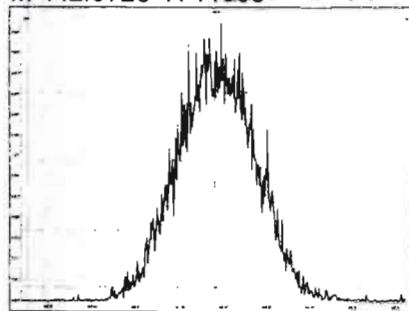


M 430.9728 R 10848

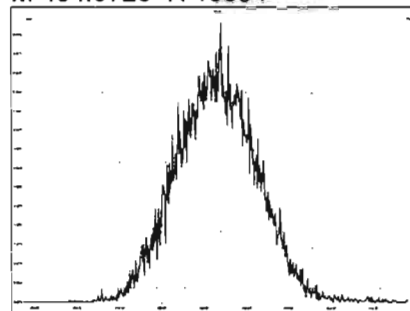


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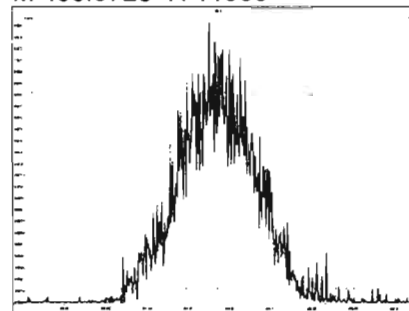
M 442.9728 R 11363



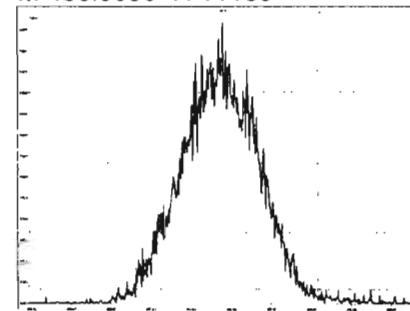
M 454.9728 R 10894



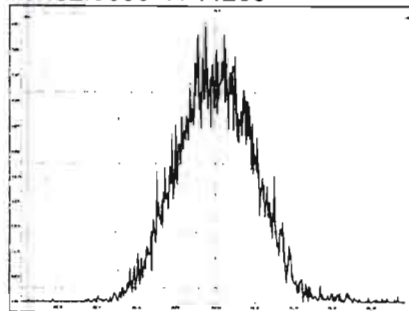
M 466.9728 R 11933



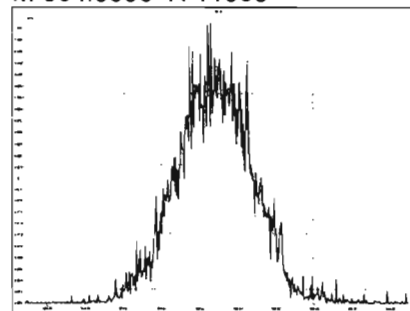
M 480.9696 R 11189



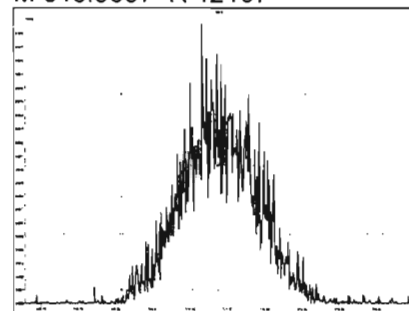
M 492.9696 R 11256



M 504.9696 R 11900



M 516.9697 R 12107



Dataset: U:\VG12.PRO\Results\200318R2\200318R2-CPSM.qld

Last Altered: Thursday, March 19, 2020 07:43:36 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:44:06 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.42
2	2 1,2,8,9-TCDD (Last)	26.84
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.46
5	5 1,2,4,6,7,9-HxCDD (First)	33.00
6	6 1,2,3,7,8,9-HxCDD (Last)	34.84
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.25
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.26
9	9 1,3,6,8-TCDF (First)	19.40
10	10 1,2,8,9-TCDF (Last)	26.99
11	11 1,3,4,6,8-PeCDF (First)	26.95
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.44
14	14 1,2,3,7,8,9-HxCDF (Last)	35.17
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.87
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.91

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-CPSM.qld

Last Altered: Thursday, March 19, 2020 07:43:36 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:44:06 Pacific Daylight Time

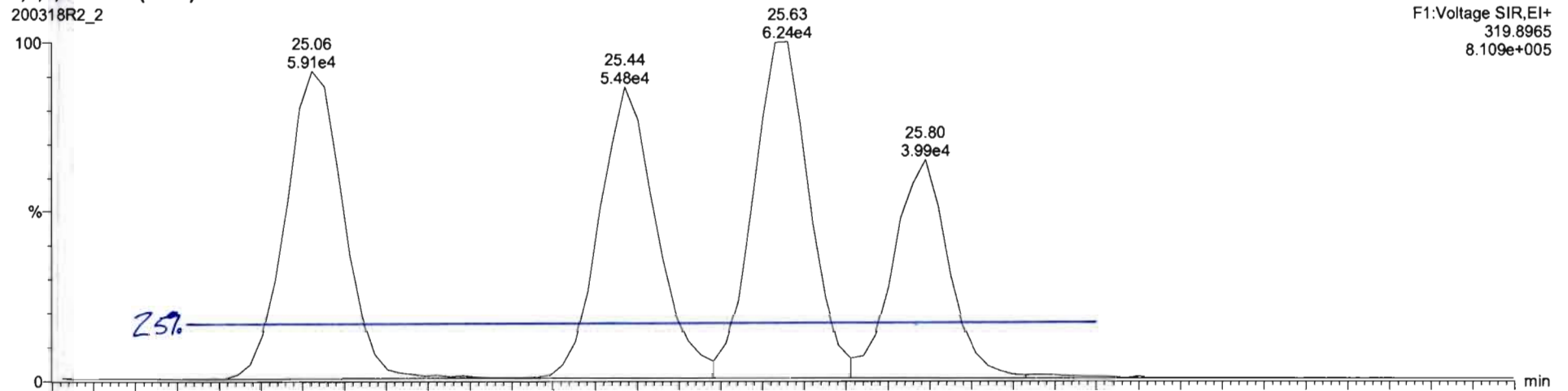
GRB 03/19/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

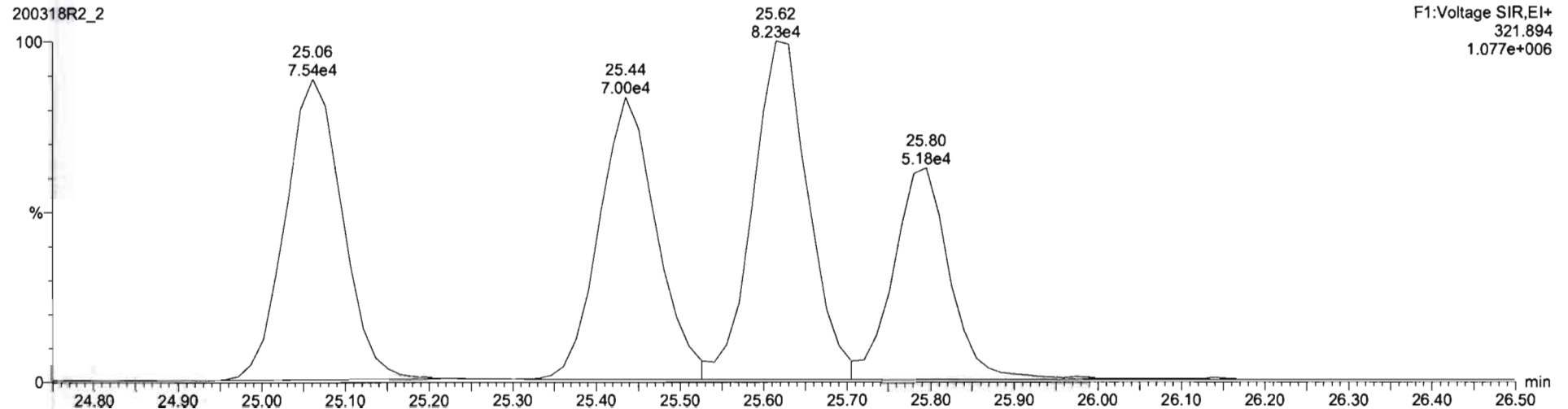
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200318R2_2



200318R2_2



Dataset: Untitled

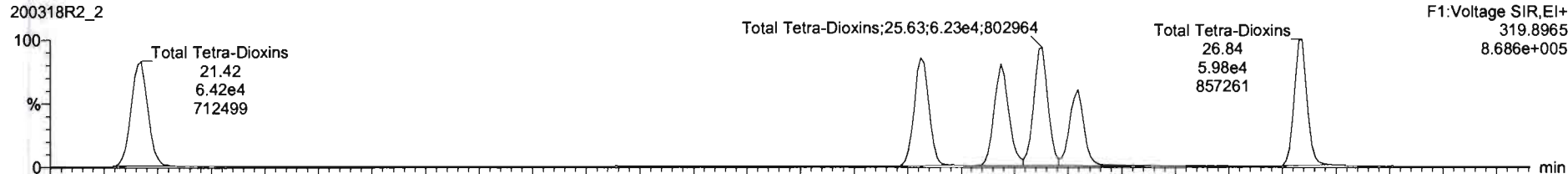
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

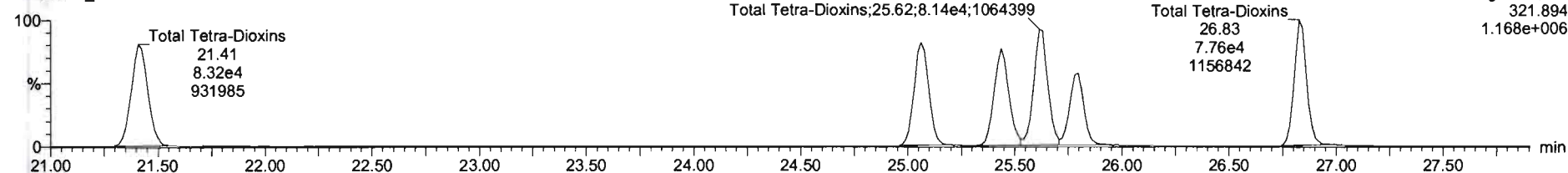
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2,3,7,8-TCDD

200318R2_2

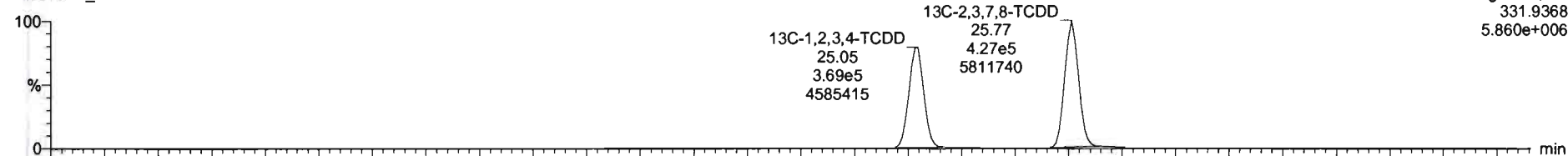


200318R2_2

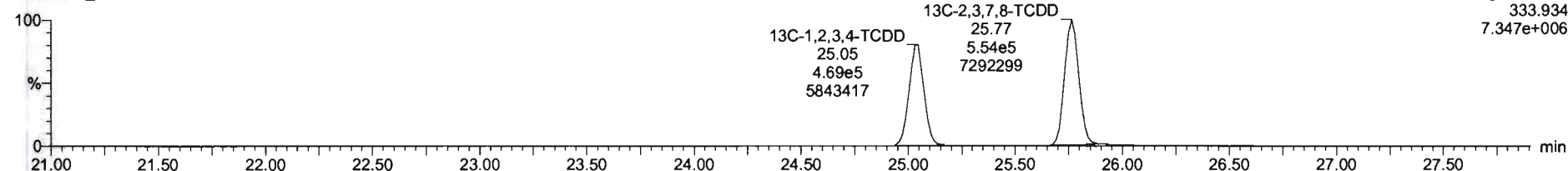


13C-2,3,7,8-TCDD

200318R2_2



200318R2_2



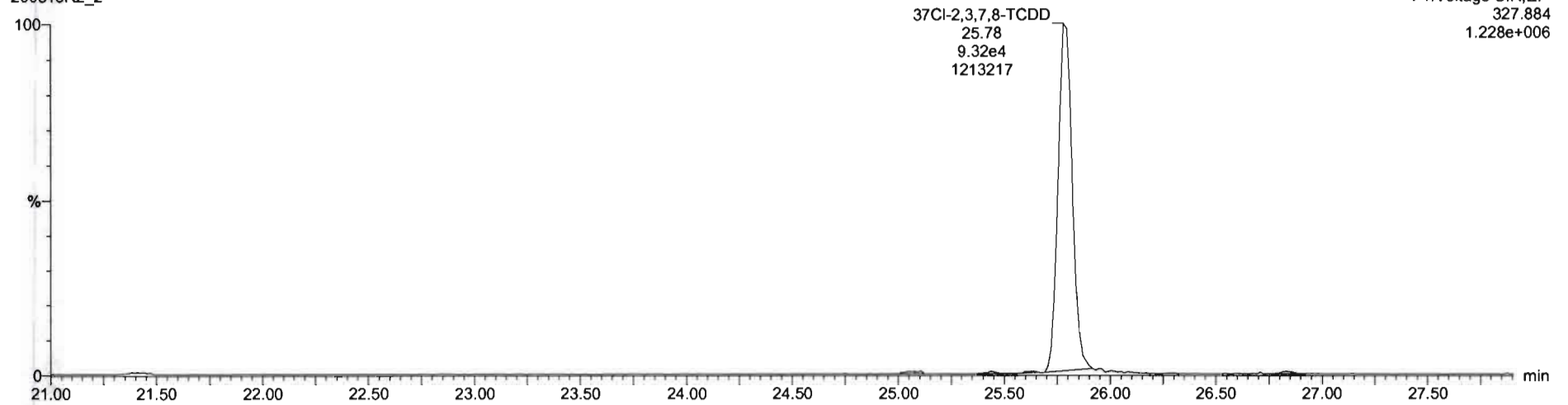
Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

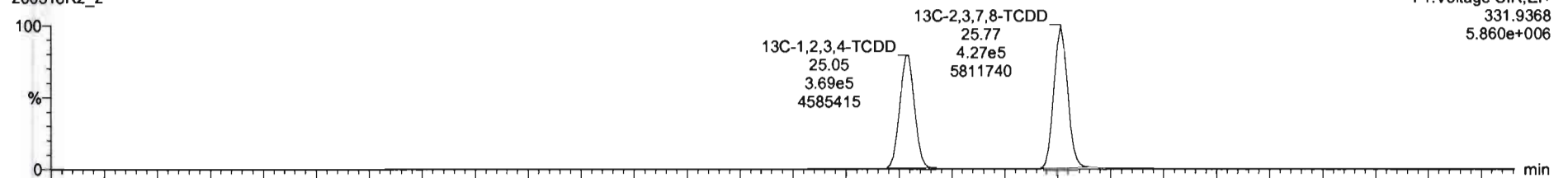
37Cl-2,3,7,8-TCDD

200318R2_2

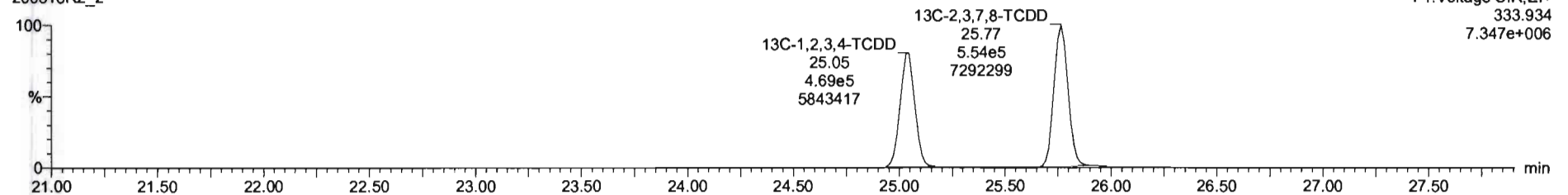


13C-1,2,3,4-TCDD

200318R2_2



200318R2_2

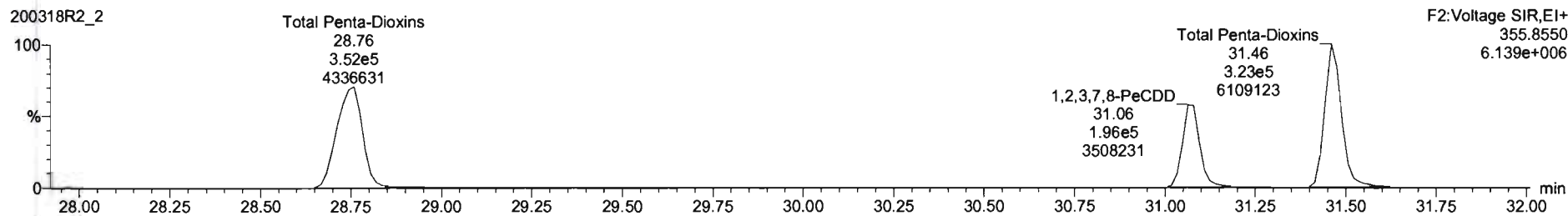
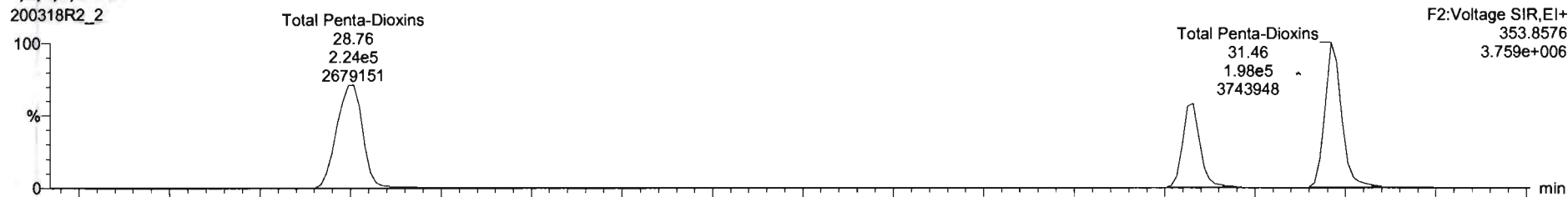


Dataset: Untitled

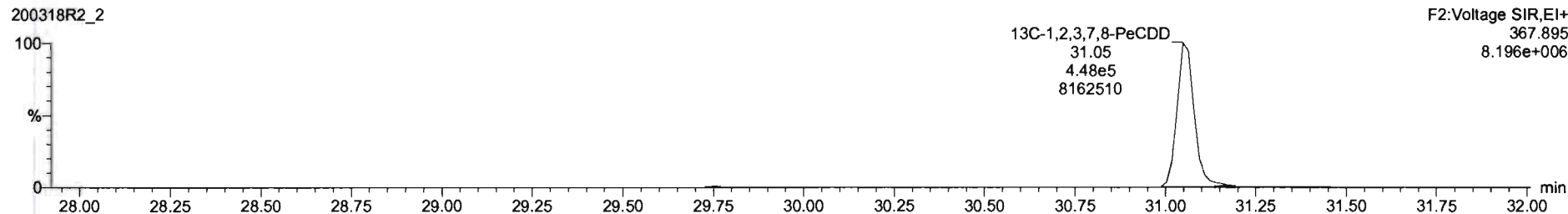
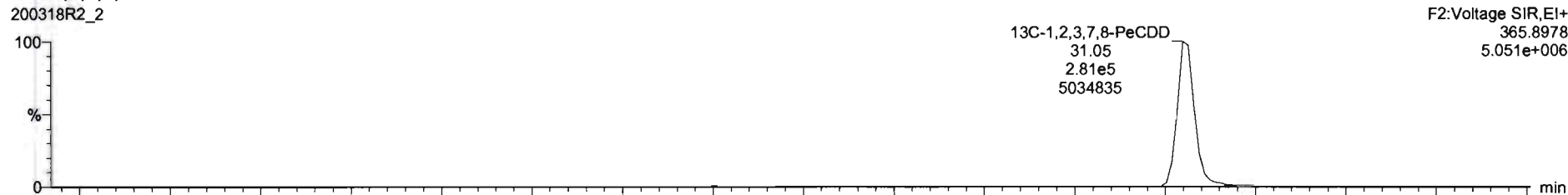
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD

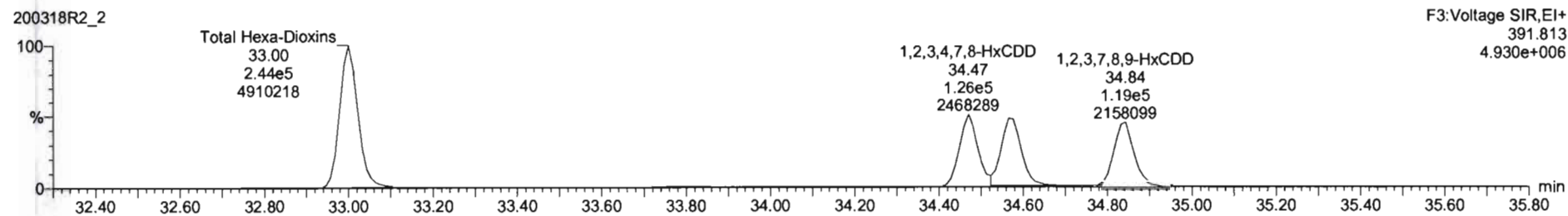
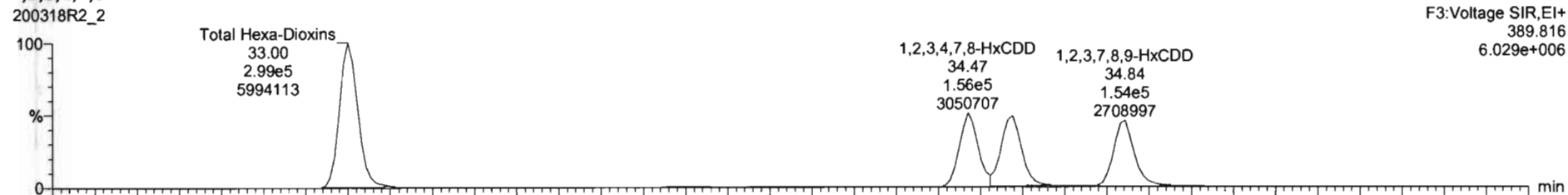


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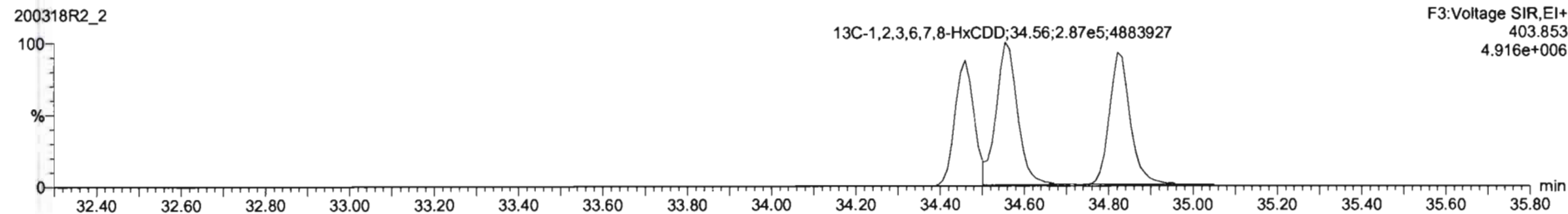
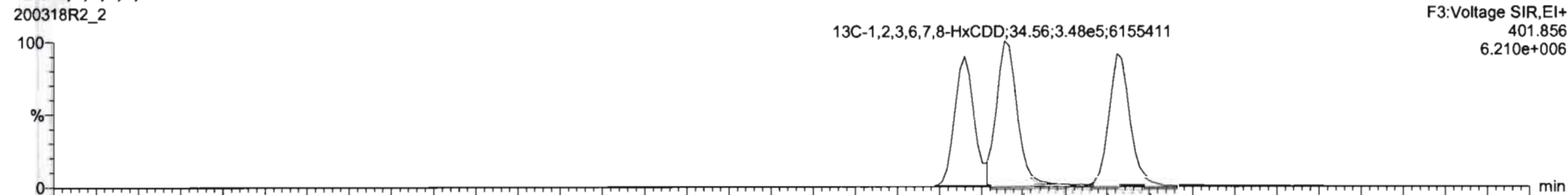
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

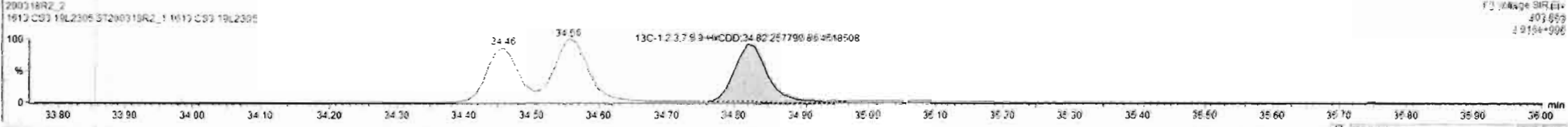
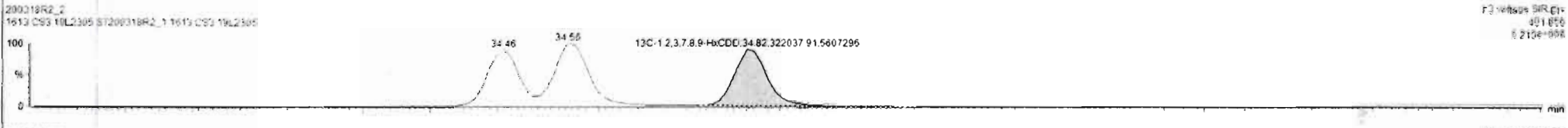
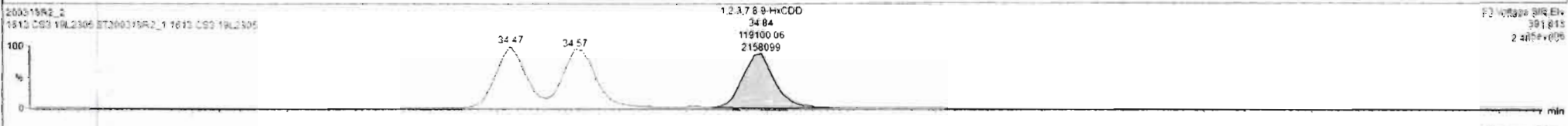
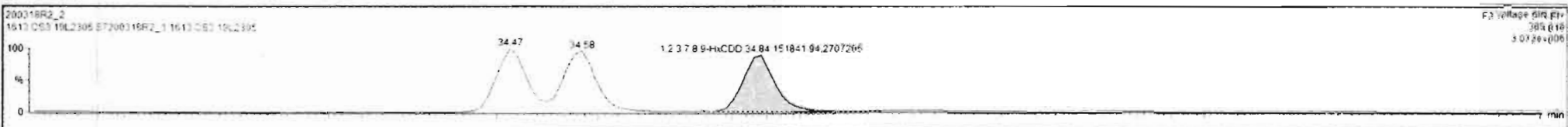
1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	6.96e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.28	52.8	NO
2	1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9944	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8,9-HxCDD	2.71e5	5.90e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0061	36.28	36.28	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.69e5	6.15e5	0.59	0.59	NO	1.0515	41.32	41.33	NO	1.000	1.000	93.1	93.1	NO
8	1,2,3,7,8-TCDF	1.06e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.93e5	1.04e6	1.55	1.55	NO	0.9594	29.73	29.72	NO	1.001	1.001	46.2	98.4	NO
10	1,2,3,4,7,8-PeCDF	4.82e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	46.8	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1,2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.09e5	1.24	1.22	NO	1.0262	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.65e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	46.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2096	36.50	36.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.85e5	0.89	0.89	NO	0.9482	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO



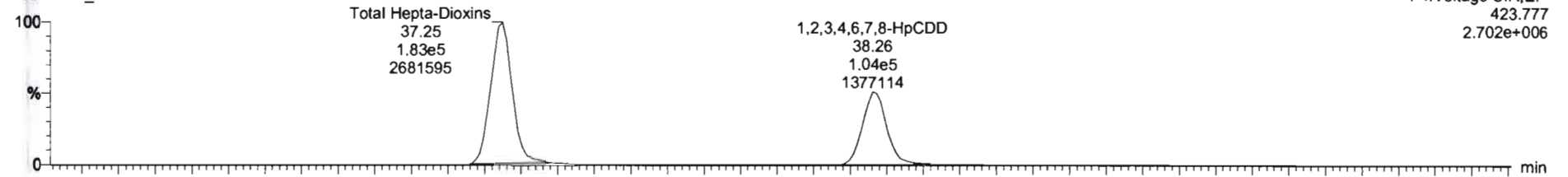
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

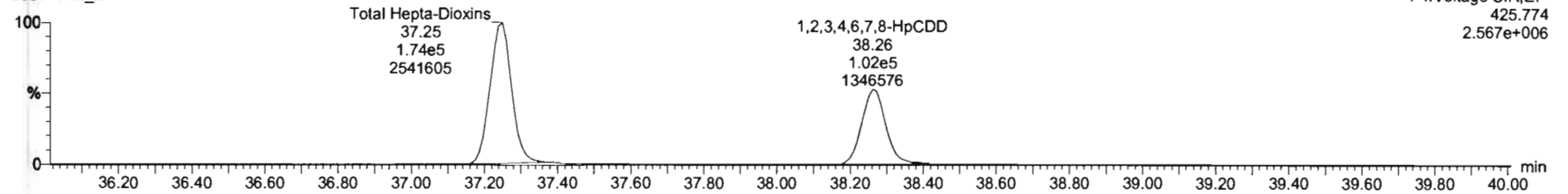
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,4,6,7,8-HpCDD

200318R2_2

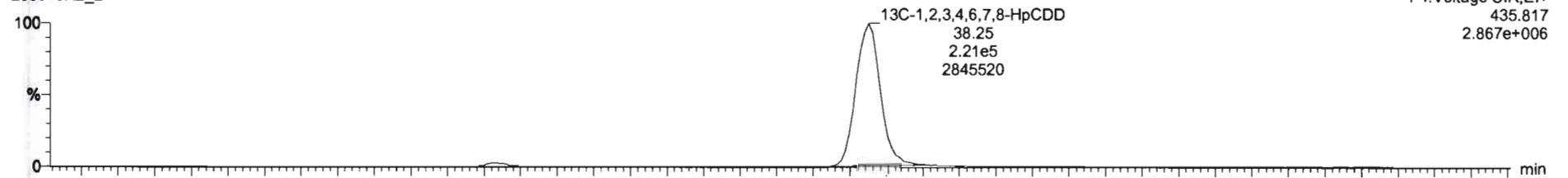


200318R2_2

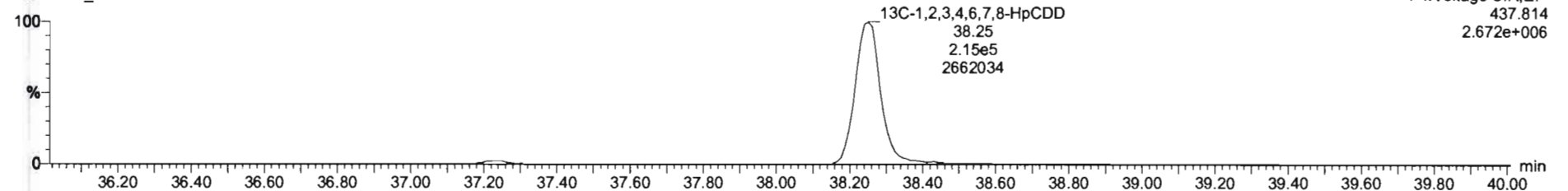


13C-1,2,3,4,6,7,8-HpCDD

200318R2_2



200318R2_2



Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

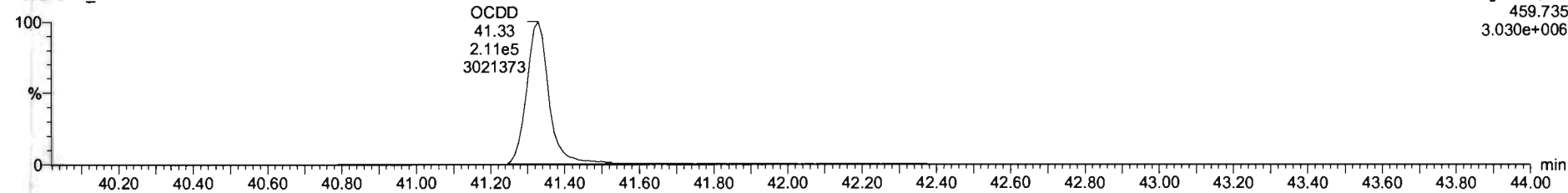
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDD

200318R2_2

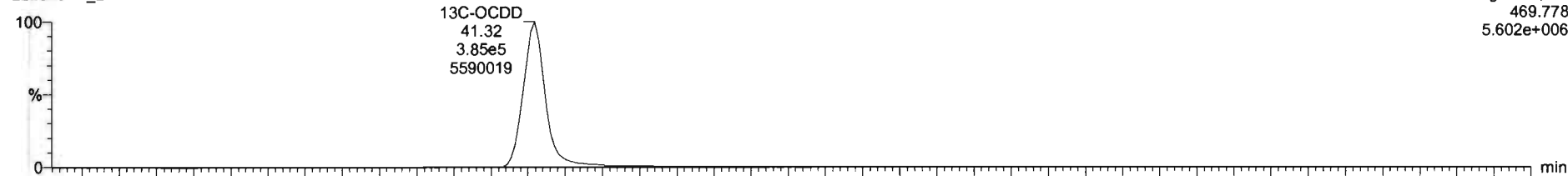


200318R2_2

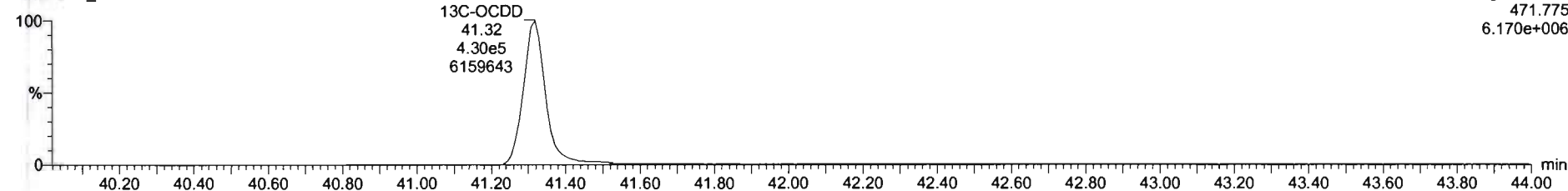


13C-OCDD

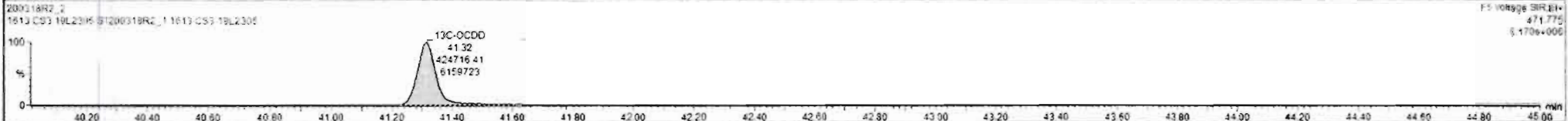
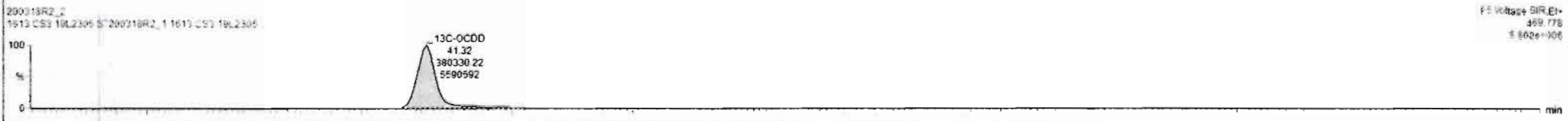
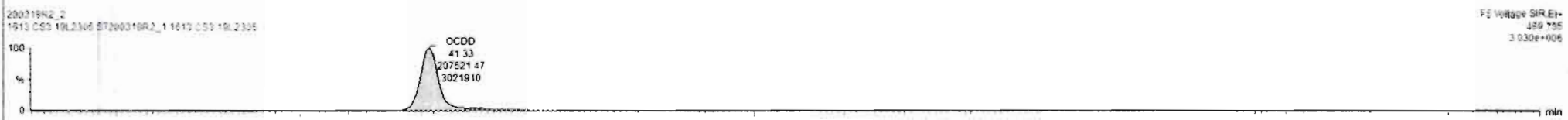
200318R2_2



200318R2_2



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.65e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	1.18e5	7.29e5	0.62	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9844	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9874	34.83	34.84	NO	1.000	1.001	48.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.26e5	1.04	1.02	NO	1.0061	36.26	36.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	2,3,7,8-TCDF	1.08e5	1.32e6	0.77	0.76	NO	0.5154	24.75	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.93e5	1.04e6	1.55	1.55	NO	0.9594	29.73	29.72	NO	1.001	1.001	49.2	98.4	NO
10	2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.0	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	48.8	93.6	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	6.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0520	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.24	1.22	NO	1.0268	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.85e5	1.04	1.01	NO	1.0483	36.69	36.87	NO	1.001	1.000	48.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2095	38.50	38.51	NO	1.000	1.000	47.5	96.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9468	41.50	41.51	NO	1.000	1.000	94.8	94.8	NO

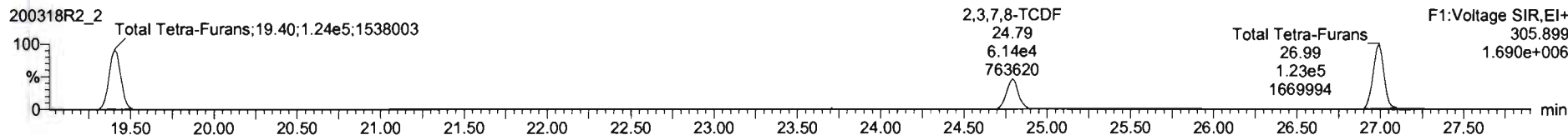


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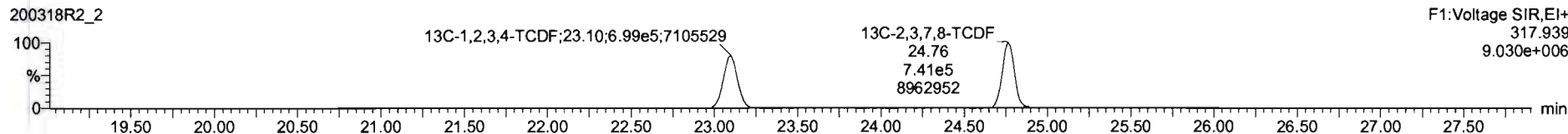
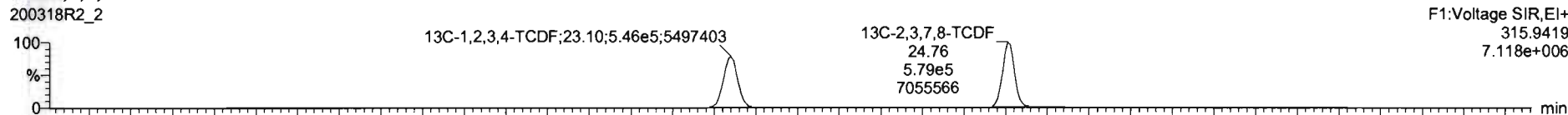
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

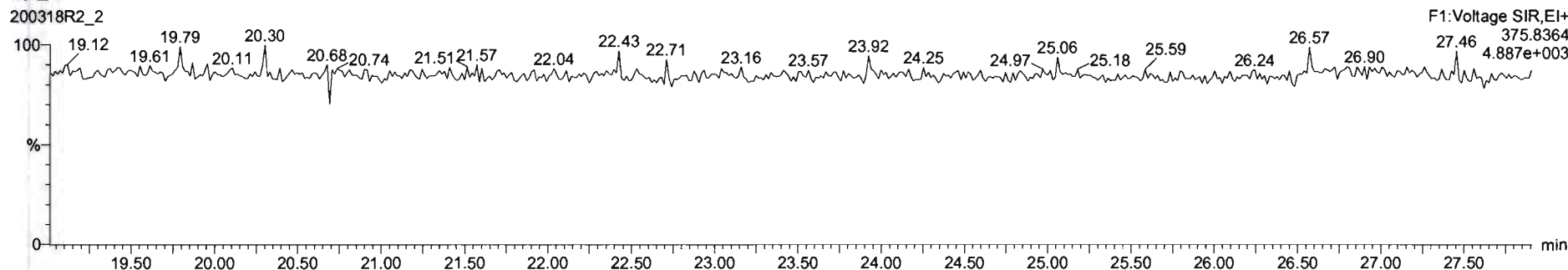
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1

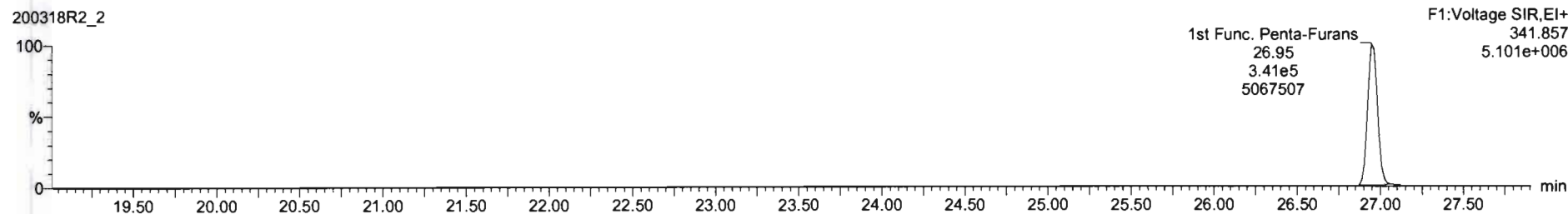
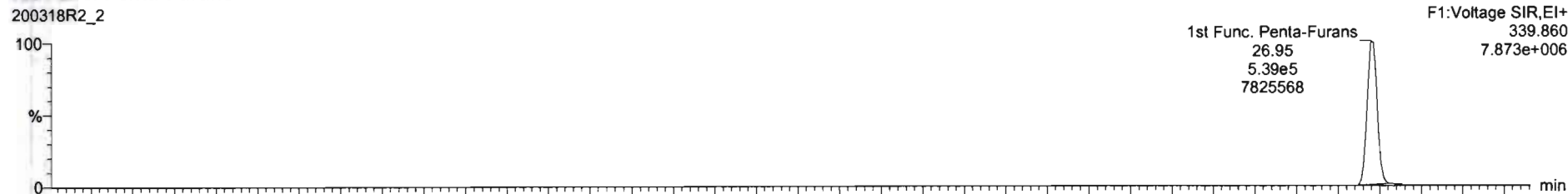


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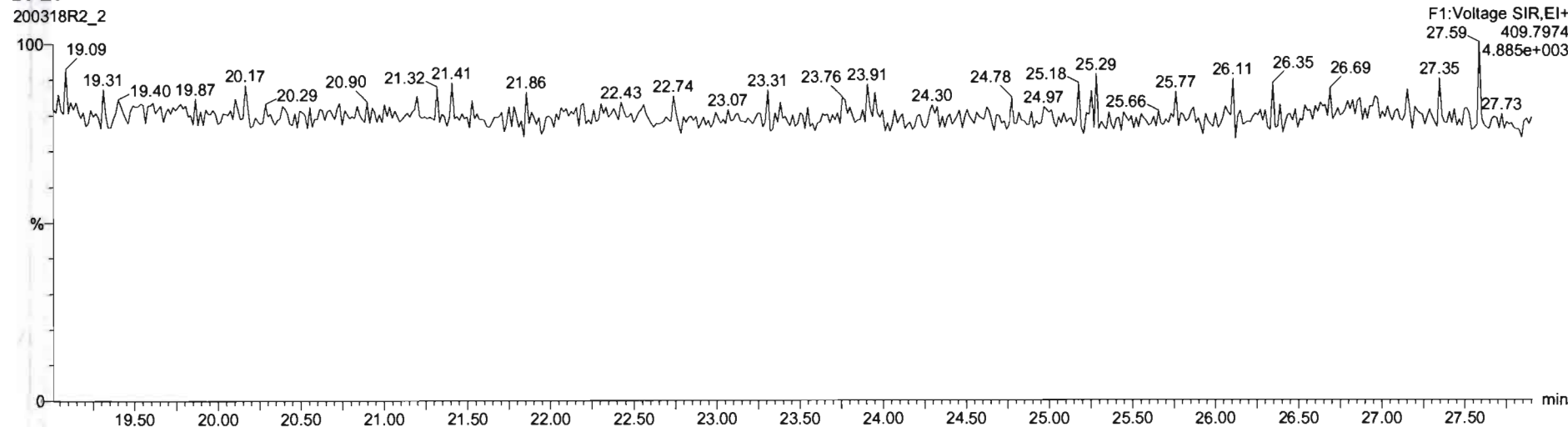
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans



DPE6

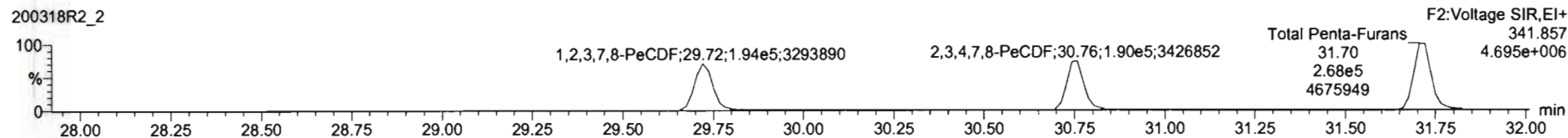
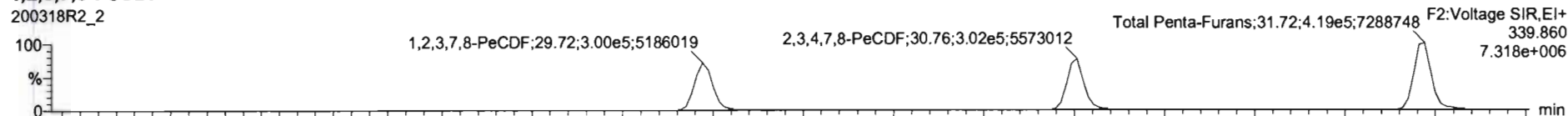


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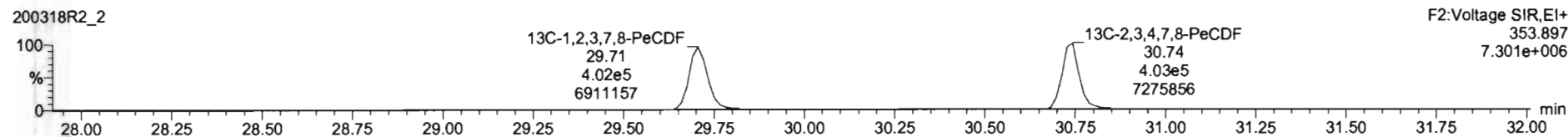
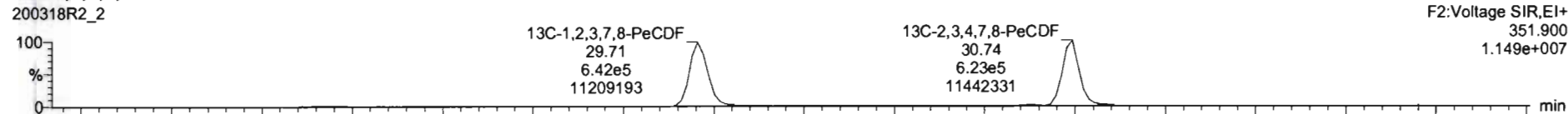
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Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

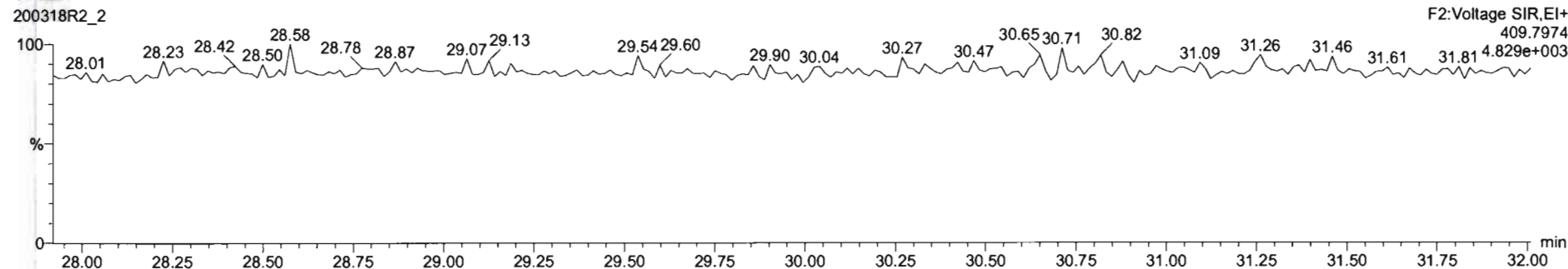
1,2,3,7,8-PeCDF



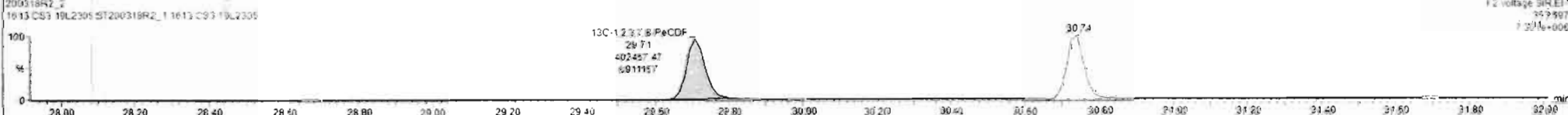
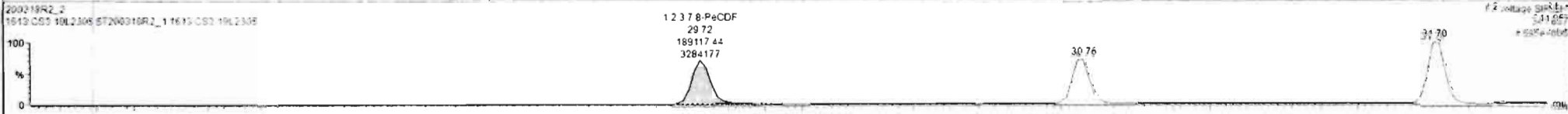
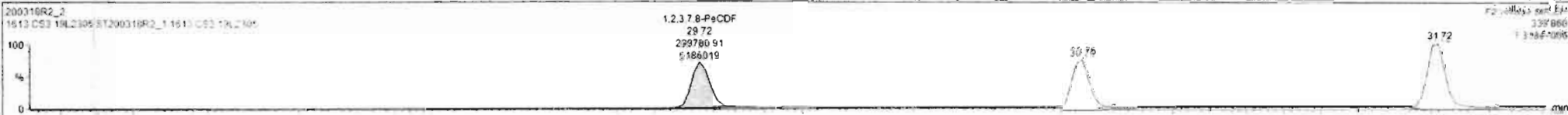
13C-1,2,3,7,8-PeCDF



DPE2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.56e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	92.8	NO
2	1,2,3,7,8-PeCDD	3.15e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.56e5	6.35e5	1.24	1.25	NO	0.9844	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8,9-HxCDD	2.71e5	5.00e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0061	36.26	36.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	1,2,3,7,8-TCDF	1.05e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	6.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.88e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	48.8	97.5	NO
10	1,2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.96e5	1.24	1.22	NO	1.0361	33.61	33.62	NO	1.000	1.000	46.8	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.55e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1,2,3,4,6,7,8-HpCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.24	1.22	NO	1.0266	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.85e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	46.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2099	38.90	38.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9468	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO

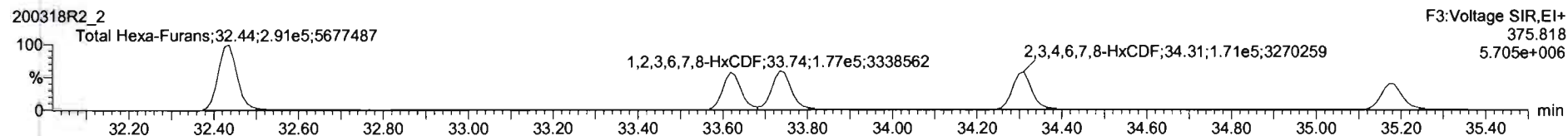
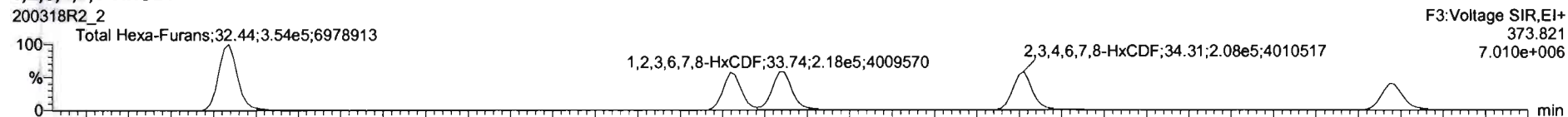


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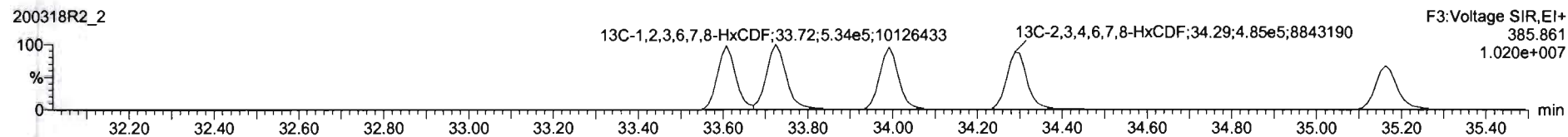
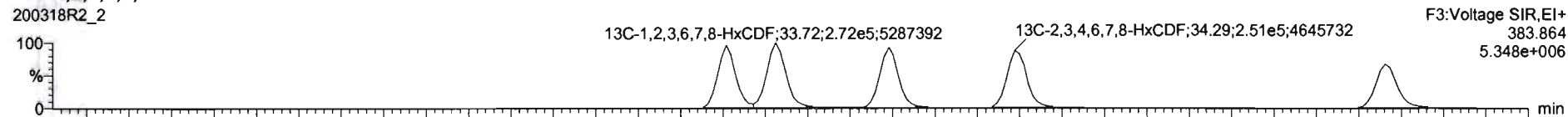
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

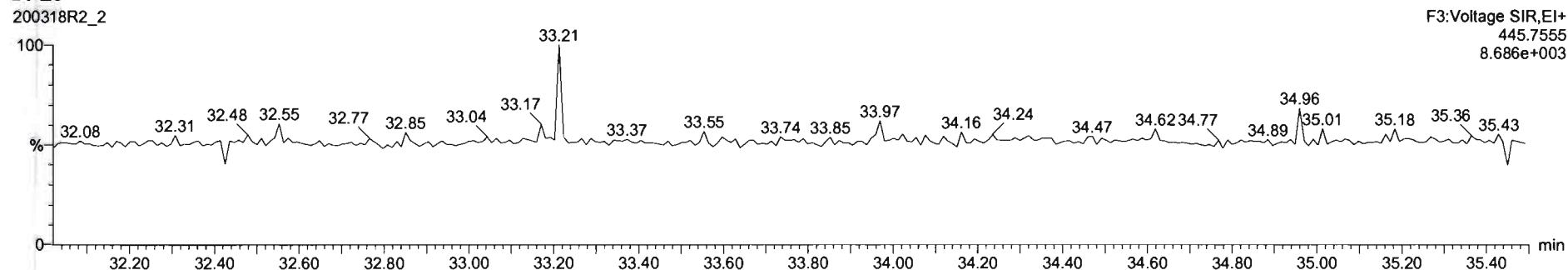
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



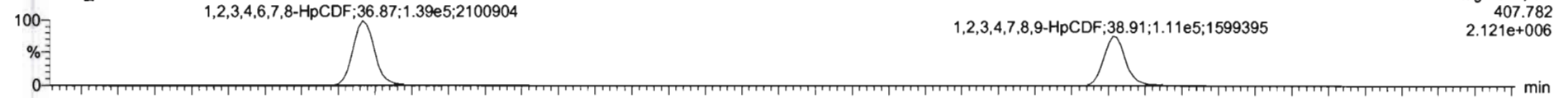
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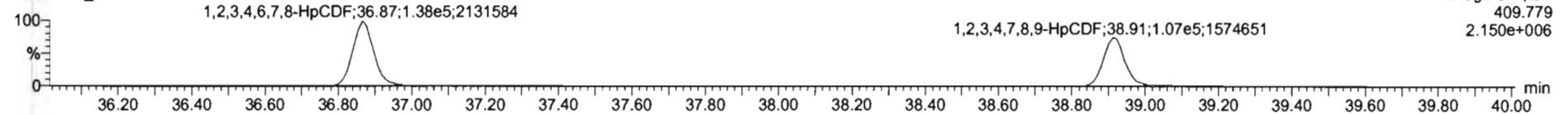
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1,2,3,4,6,7,8-HpCDF

200318R2_2

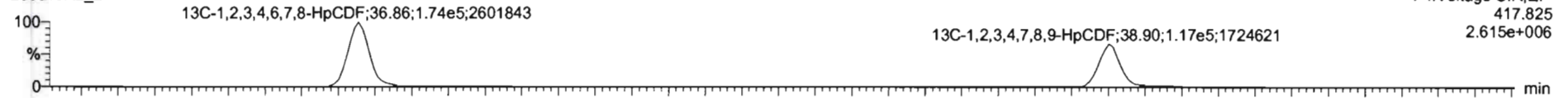


200318R2_2

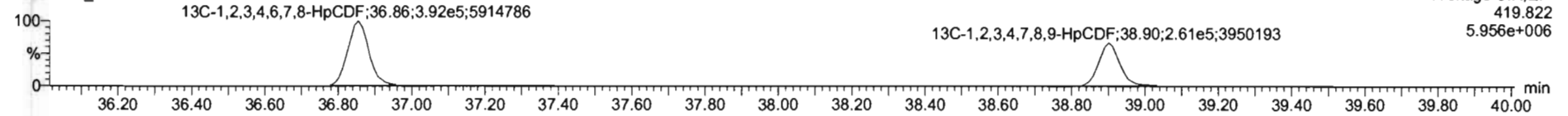


13C-1,2,3,4,6,7,8-HpCDF

200318R2_2

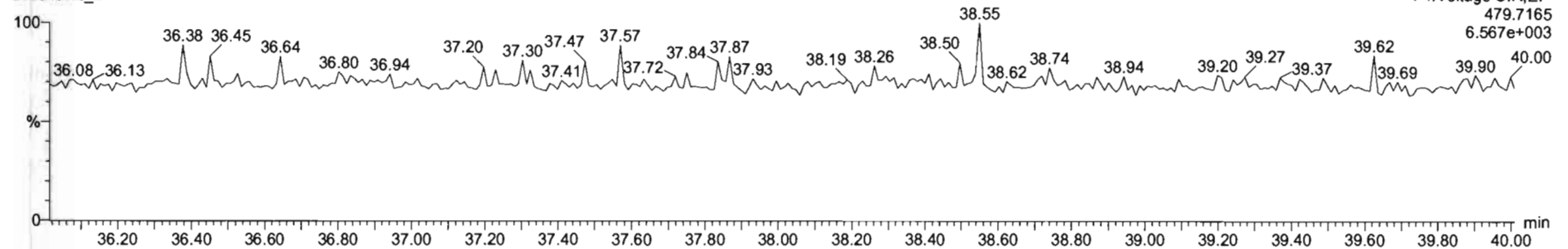


200318R2_2

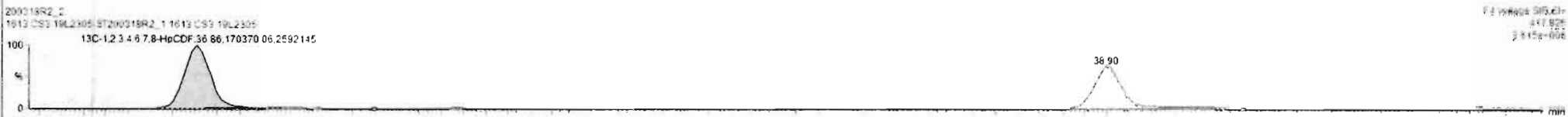
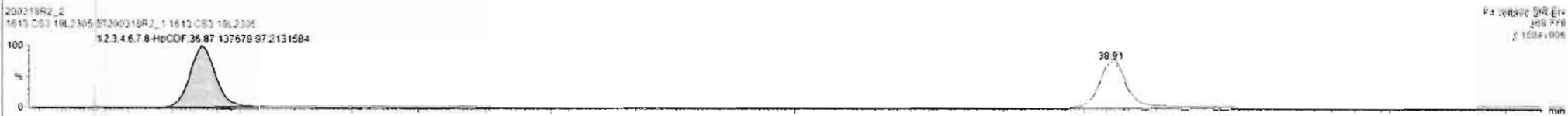


DPE4

200318R2_2

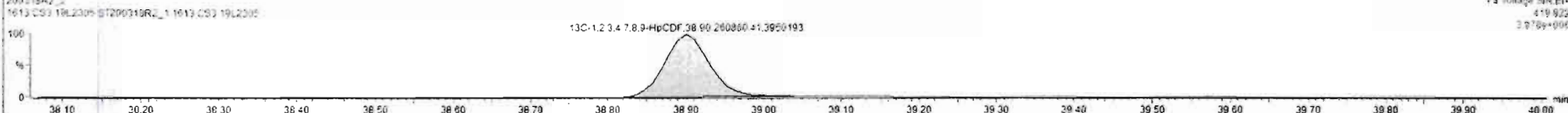
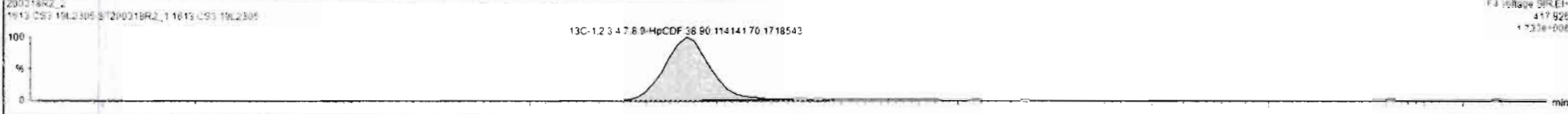
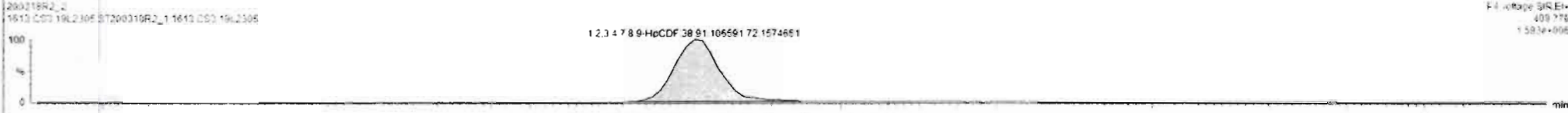
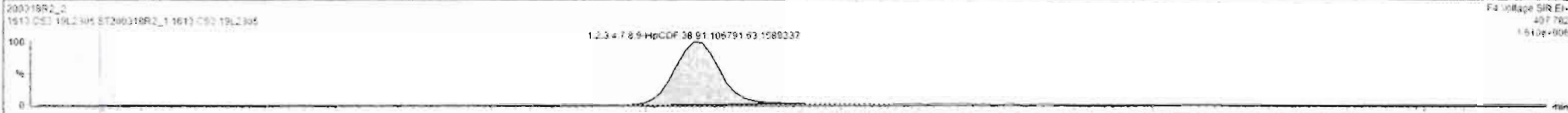


#	Name	Resp	IS Resp	Pred RA	RA	ily	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.95e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	92.8	NO
2	1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.83	0.82	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	46.3	96.8	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9944	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	46.3	96.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0961	36.26	36.26	NO	1.000	1.000	47.2	94.1	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	52.6	92.8	NO
8	1,2,3,7,8-TCDF	1.06e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.85e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	46.8	97.5	NO
10	1,2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0335	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0361	33.61	33.62	NO	1.000	1.000	46.6	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	46.3	96.7	NO
13	1,2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.2	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.96e5	6.04e5	1.24	1.22	NO	1.0262	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	47.0	94.1	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2999	36.90	36.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9466	41.50	41.51	NO	1.000	1.000	54.0	94.6	NO



1613 CS3 19L2305 ST200318R2_1 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1.2,3,7,8-TCDD	6.55e4	9.81e5	0.77	0.80	NO	0.9935	25.00	25.60	NO	1.001	1.001	9.28	52.8	NO
2	1.2,3,7,8-PeCDD	3.15e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1.2,3,4,7,8-HxCDD	2.63e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	95.6	NO
4	1.2,3,6,7,8-HxCDD	2.94e5	8.25e5	1.24	1.25	NO	0.9544	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1.2,3,7,8,9-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	95.6	NO
6	1.2,3,4,6,7,8-HpCDD	2.07e5	4.26e5	1.04	1.02	NO	1.0061	38.26	38.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	2,3,7,8-TCDF	1.08e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1.2,3,7,8-PeCDF	4.69e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	48.8	97.5	NO
10	1.2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.78	NO	1.001	1.000	47.8	95.7	NO
11	1.2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	46.6	93.5	NO
12	1.2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1.2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1.2,3,7,8,9-HxCDF	2.96e5	6.08e5	1.24	1.22	NO	1.0265	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1.2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	47.0	94.1	NO
16	1,2,3,4,7,8,9-HpCDF	2.13e5	3.75e5	1.04	1.00	NO	1.2099	36.90	38.91	NO	1.000	1.000	47.0	94.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9482	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO



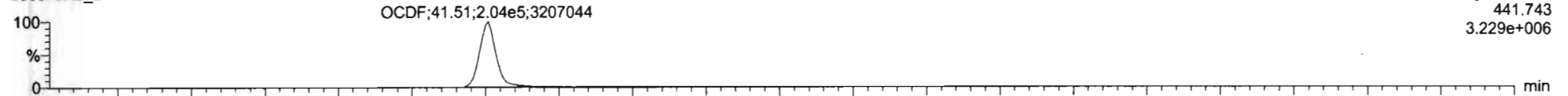
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

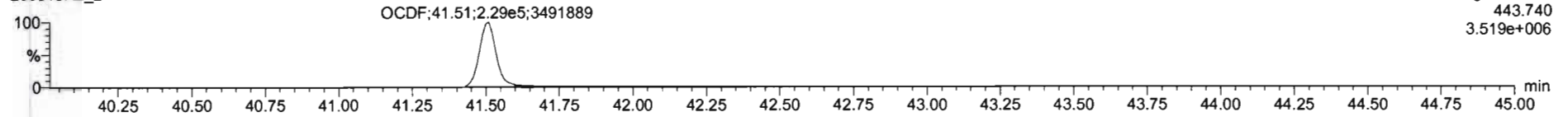
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200318R2_2

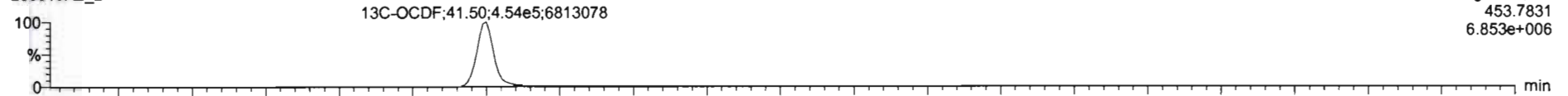


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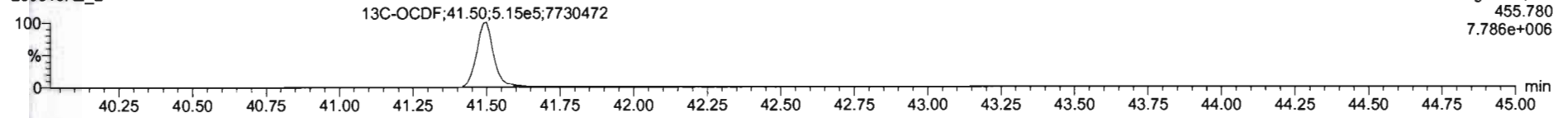


13C-OCDF

200318R2_2

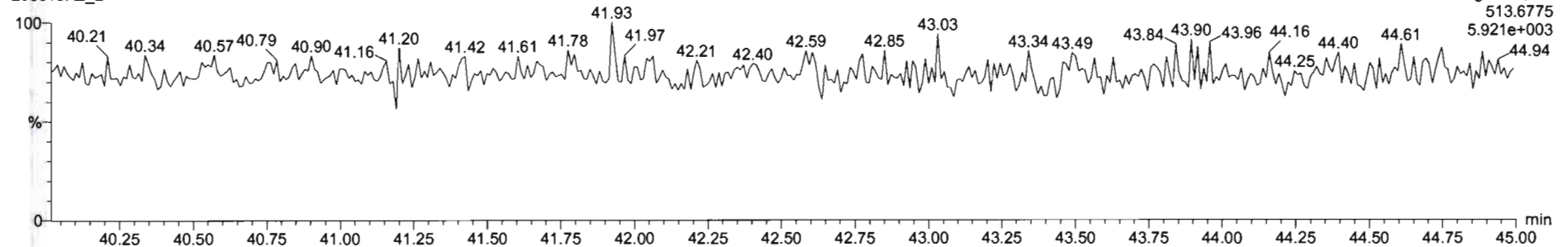


200318R2_2



DPE5

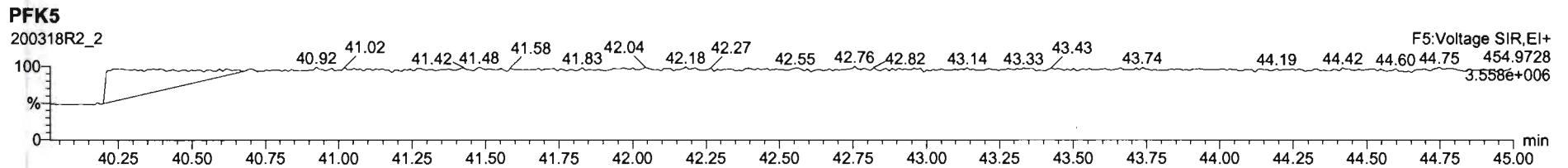
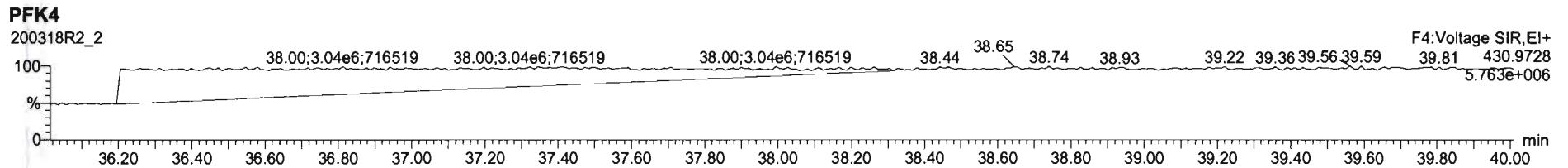
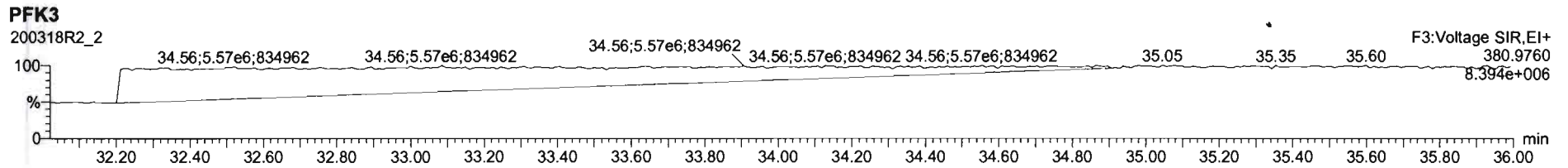
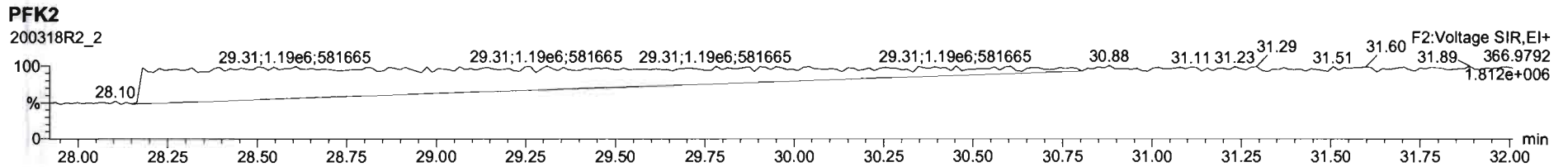
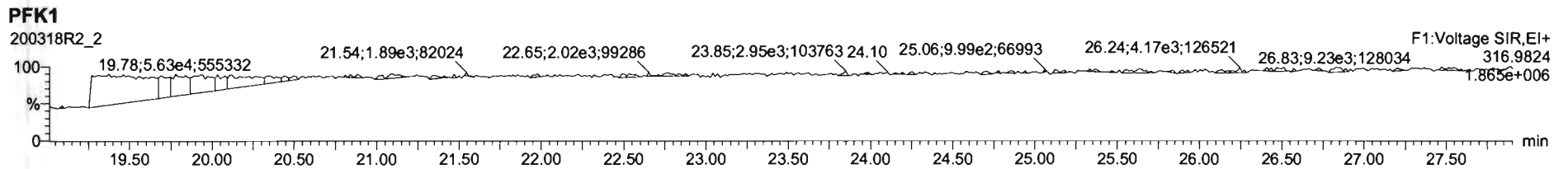
200318R2_2



Dataset: Untitled

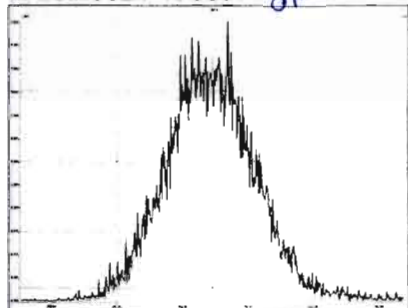
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

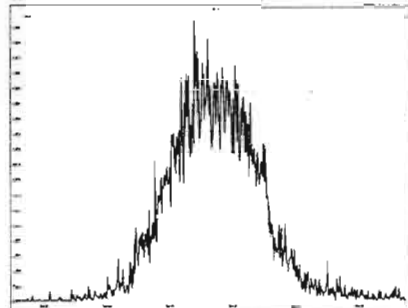


Printed: Thursday, March 19, 2020 15:37:56 Pacific Daylight Time

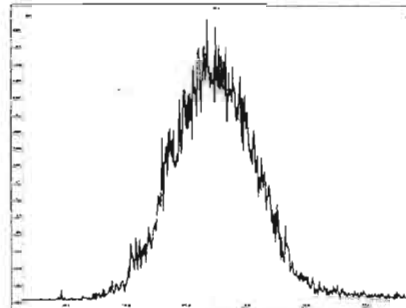
M 292.9824 R 9891 *OK*



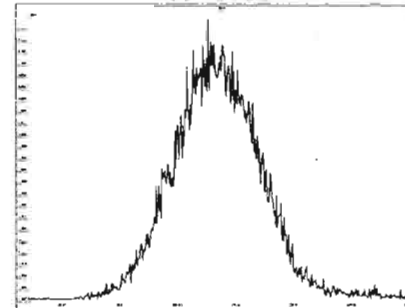
M 304.9824 R 11089



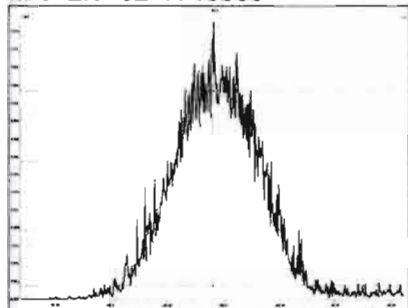
M 318.9792 R 10309



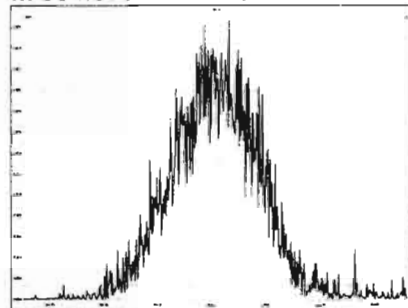
M 330.9792 R 10109



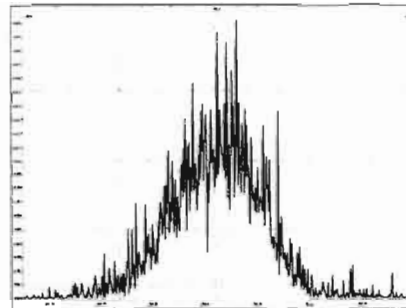
M 342.9792 R 10555



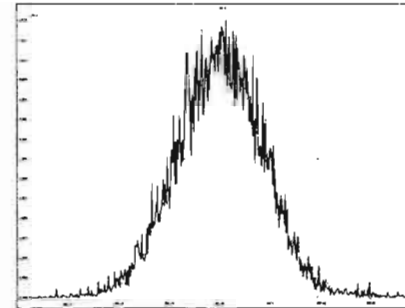
M 354.9792 R 11161



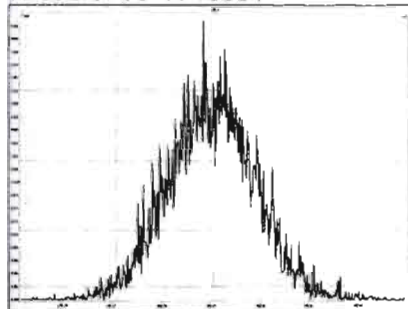
M 366.9792 R 11283



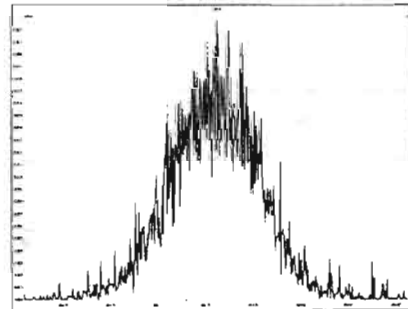
M 380.9760 R 10351



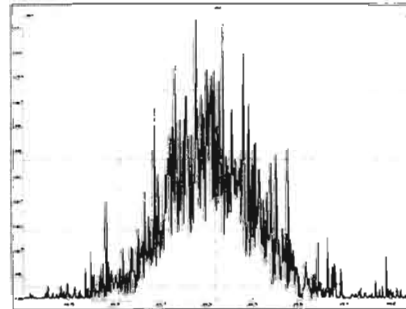
M 392.9760 R 10361



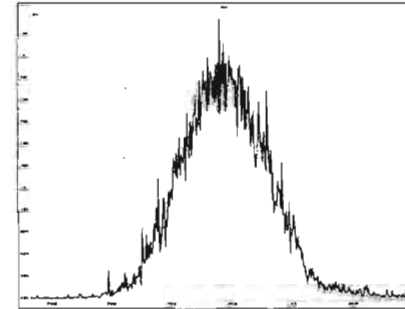
M 404.9760 R 11240



M 416.9760 R 13187

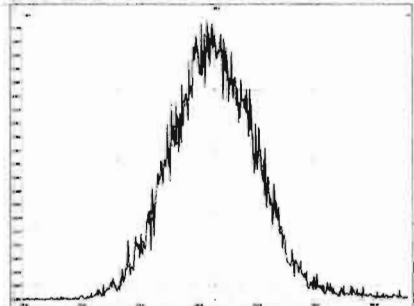


M 318.9792 R 10205

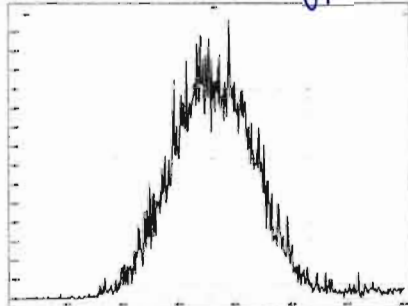


Printed: Thursday, March 19, 2020 15:37:56 Pacific Daylight Time

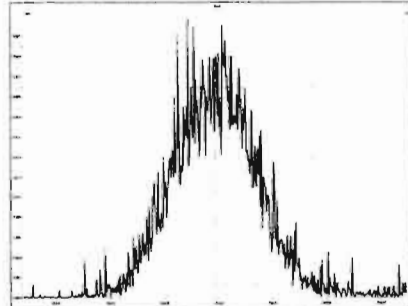
M 330.9792 R 10144



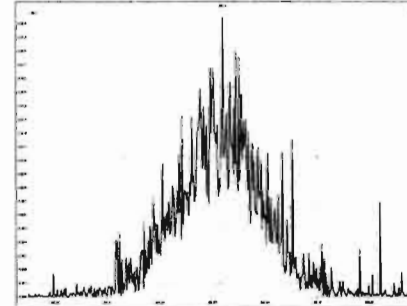
M 342.9792 R 9960 *OK*



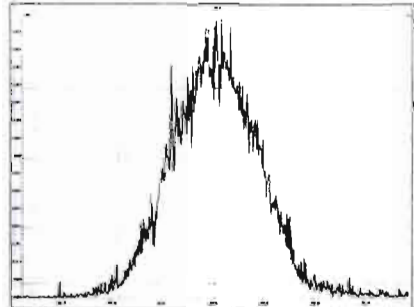
M 354.9792 R 10755



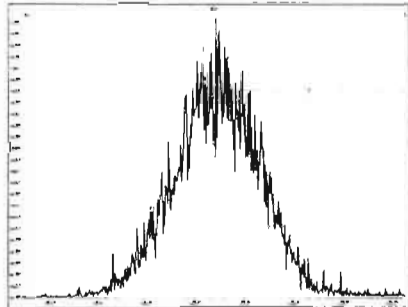
M 366.9792 R 11713



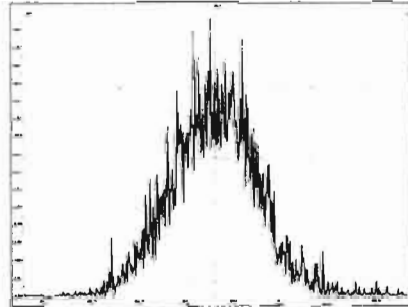
M 380.9760 R 10107



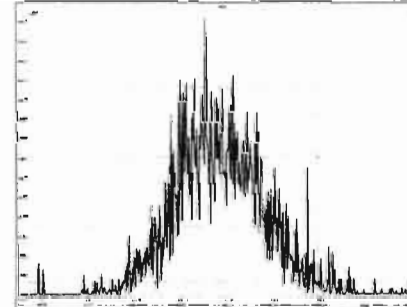
M 392.9760 R 10706



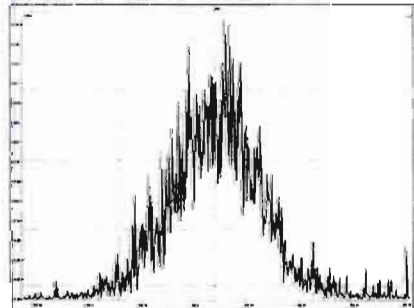
M 404.9760 R 10496



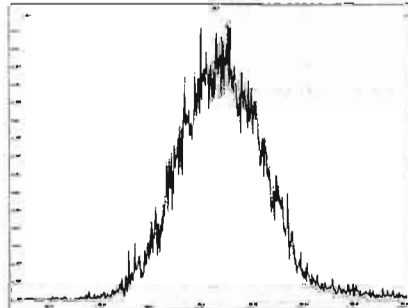
M 416.9760 R 12468



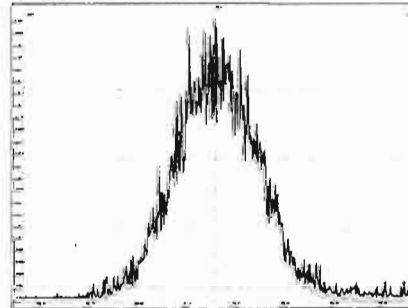
M 366.9792 R 11524



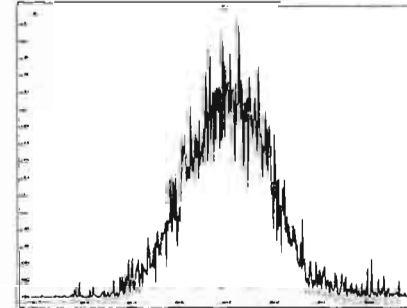
M 380.9760 R 10250



M 392.9760 R 11135

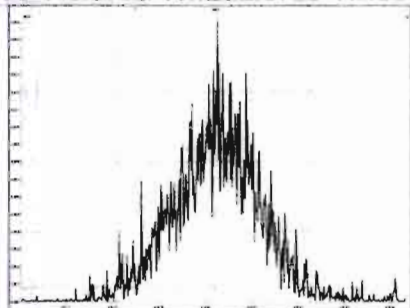


M 404.9760 R 10957

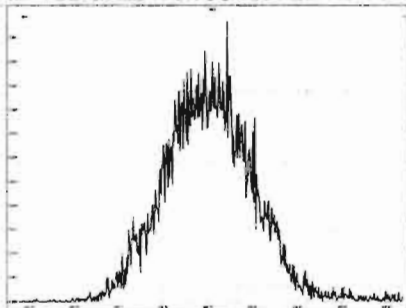


Printed: Thursday, March 19, 2020 15:37:56 Pacific Daylight Time

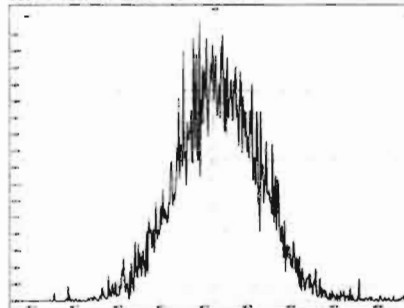
M 416.9760 R 12570.728 R 10898



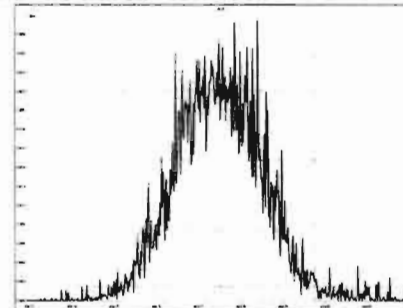
M 430.9728 R 10040.728 R 10898



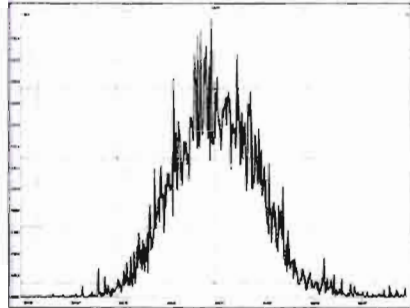
M 442.9728 R 10898



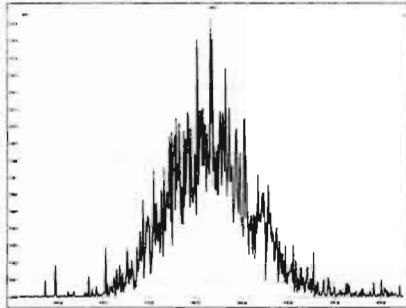
M 454.9728 R 11390



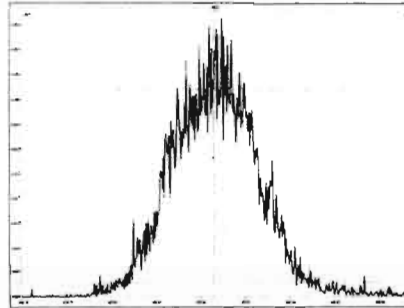
M 404.9760 R 10955



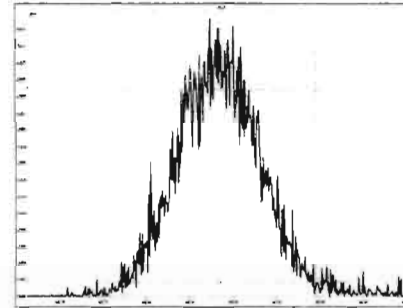
M 416.9760 R 11798



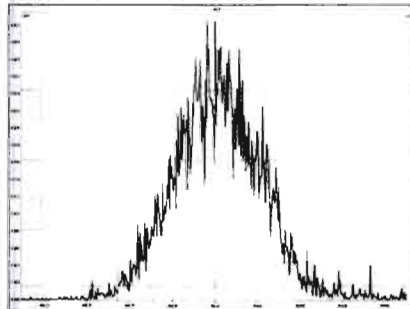
M 430.9728 R 10312



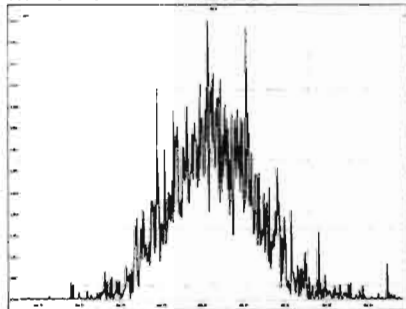
M 442.9728 R 11192



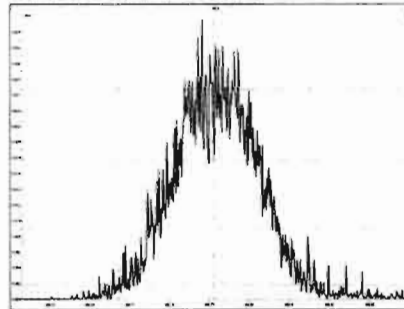
M 454.9728 R 10930



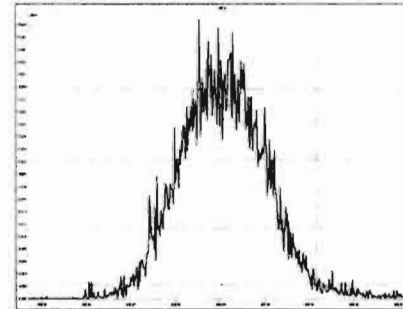
M 466.9728 R 12026



M 480.9696 R 10770

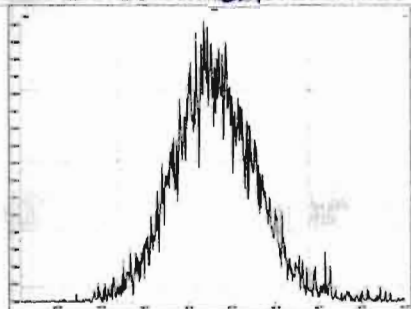


M 430.9728 R 10471

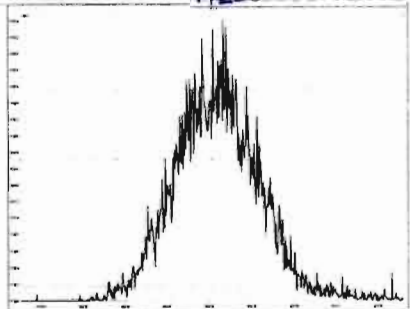


Printed: Thursday, March 19, 2020 15:37:56 Pacific Daylight Time

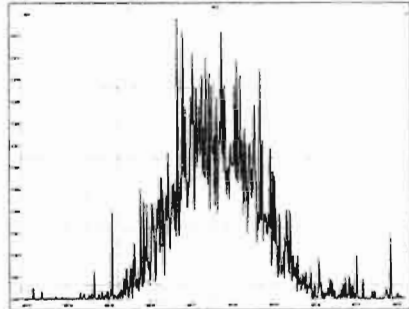
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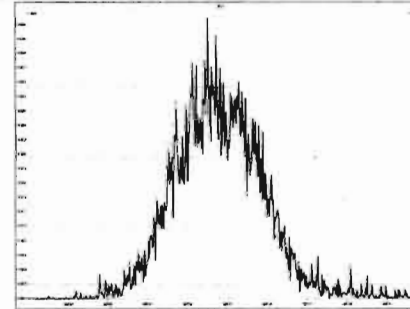
M 454.9728 R 11295



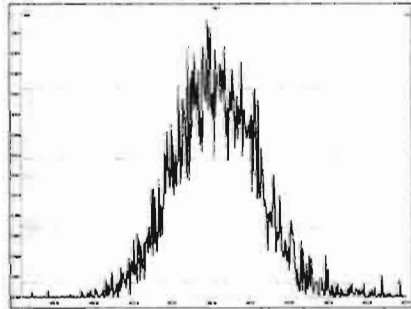
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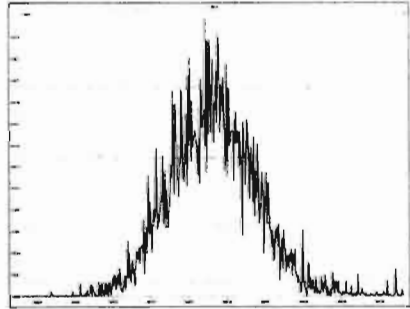
M 480.9696 R 11210



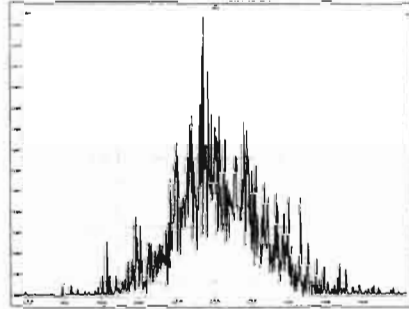
M 492.9696 R 10872



M 504.9696 R 10803



M 516.9697 R 12887



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200319R1-2

Reviewed By: C7 03/20/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u> </u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	

Mass resolution >

5k 6-8K 8K 10K
1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
<input type="checkbox"/>	<input type="checkbox"/> <u>NA</u>

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-2.qld

Last Altered: Friday, March 20, 2020 07:32:19 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:33:16 Pacific Daylight Time

GRB 03/18/2020

C7 03/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	7.44e4	8.38e5	0.76	NO	0.983	25.80	25.80	NO	1.001	1.001	9.0225	90.2	NO
2	2 1,2,3,7,8-PeCDD	2.66e5	6.07e5	0.62	NO	0.921	31.09	31.08	NO	1.001	1.000	47.654	95.3	NO
3	3 1,2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.26	NO	1.13	34.49	34.49	NO	1.000	1.000	46.982	94.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.25	NO	0.984	34.58	34.59	NO	1.000	1.000	44.743	89.5	NO
5	5 1,2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.21	NO	0.967	34.85	34.85	NO	1.000	1.000	46.172	92.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.02	NO	1.01	38.27	38.28	NO	1.000	1.001	45.529	91.1	NO
7	7 OCDD	4.02e5	8.54e5	0.89	NO	1.05	41.33	41.34	NO	1.000	1.000	89.475	89.5	NO
8	8 2,3,7,8-TCDF	8.50e4	1.10e6	0.74	NO	0.915	24.79	24.79	NO	1.001	1.001	8.4712	84.7	NO
9	9 1,2,3,7,8-PeCDF	3.94e5	8.92e5	1.56	NO	0.959	29.74	29.74	NO	1.001	1.001	46.060	92.1	NO
10	10 2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.53	NO	1.00	30.79	30.77	NO	1.001	1.000	46.261	92.5	NO
11	11 1,2,3,4,7,8-HxCDF	2.84e5	6.03e5	1.22	NO	1.04	33.63	33.64	NO	1.000	1.000	45.427	90.9	NO
12	12 1,2,3,6,7,8-HxCDF	3.09e5	6.67e5	1.23	NO	1.01	33.76	33.76	NO	1.000	1.000	45.765	91.5	NO
13	13 2,3,4,6,7,8-HxCDF	3.01e5	6.18e5	1.19	NO	1.09	34.34	34.32	NO	1.001	1.000	44.647	89.3	NO
14	14 1,2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.21	NO	1.03	35.18	35.19	NO	1.000	1.000	45.397	90.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.47e5	5.19e5	0.99	NO	1.05	36.90	36.89	NO	1.001	1.001	45.357	90.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.90e5	3.50e5	1.03	NO	1.21	38.91	38.93	NO	1.000	1.001	44.905	89.8	NO
17	17 OCDF	4.20e5	9.86e5	0.88	NO	0.947	41.50	41.51	NO	1.000	1.000	89.952	90.0	NO
18	18 13C-2,3,7,8-TCDD	8.38e5	7.15e5	0.77	NO	1.18	25.75	25.77	NO	1.029	1.029	98.980	99.0	NO
19	19 13C-1,2,3,7,8-PeCDD	6.07e5	7.15e5	0.63	NO	0.864	30.94	31.06	NO	1.236	1.241	98.166	98.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.59e5	6.17e5	1.26	NO	0.754	34.48	34.48	NO	1.014	1.014	98.777	98.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.72e5	6.17e5	1.26	NO	0.925	34.59	34.58	NO	1.017	1.017	100.26	100	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.19e5	6.17e5	1.25	NO	0.829	34.86	34.84	NO	1.025	1.024	101.36	101	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.40e5	6.17e5	1.04	NO	0.598	38.32	38.26	NO	1.127	1.125	119.15	119	NO
24	24 13C-OCDD	8.54e5	6.17e5	0.89	NO	0.571	41.47	41.33	NO	1.219	1.215	242.31	121	NO
25	25 13C-2,3,7,8-TCDF	1.10e6	1.05e6	0.77	NO	1.09	24.77	24.76	NO	0.990	0.989	96.189	96.2	NO
26	26 13C-1,2,3,7,8-PeCDF	8.92e5	1.05e6	1.57	NO	0.876	29.61	29.72	NO	1.183	1.187	97.189	97.2	NO
27	27 13C-2,3,4,7,8-PeCDF	8.47e5	1.05e6	1.60	NO	0.844	30.62	30.76	NO	1.223	1.229	95.949	95.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.03e5	6.17e5	0.51	NO	1.00	33.63	33.63	NO	0.989	0.989	97.759	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.67e5	6.17e5	0.51	NO	1.12	33.74	33.75	NO	0.992	0.992	96.726	96.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.18e5	6.17e5	0.51	NO	1.04	34.32	34.31	NO	1.009	1.009	96.768	96.8	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.18e5	6.17e5	0.50	NO	0.873	35.20	35.18	NO	1.035	1.034	96.135	96.1	NO

Dataset: U:\VG12 PRO\Results\200319R1\200319R1-2.qld

Last Altered: Friday, March 20, 2020 07:32:19 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:33:16 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.19e5	6.17e5	0.44	NO	0.771	36.91	36.87	NO	1.085	1.084	109.14	109	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.50e5	6.17e5	0.44	NO	0.519	39.00	38.91	NO	1.147	1.144	109.34	109	NO
34	34 13C-OCDF	9.86e5	6.17e5	0.87	NO	0.696	41.65	41.50	NO	1.225	1.220	229.49	115	NO
35	35 37Cl-2,3,7,8-TCDD	7.80e4	7.15e5			1.17	25.76	25.78	NO	1.029	1.030	9.2878	92.9	NO
36	36 13C-1,2,3,4-TCDD	7.15e5	7.15e5	0.80	NO	1.00	25.05	25.03	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.05e6	1.05e6	0.78	NO	1.00	23.19	23.09	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.17e5	6.17e5	0.51	NO	1.00	33.88	34.01	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		8.38e5			0.983	24.62		NO	0.000		80.091		NO
40	40 Total Penta-Dioxins		6.07e5			0.921	29.96		NO	0.000		213.07		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		225.46		NO
42	42 Total Hepta-Dioxins		4.40e5			1.01	37.64		NO	0.000		127.10		NO
43	43 Total Tetra-Furans		1.10e6			0.915	23.61		NO	0.000		41.677		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		89.312		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		159.60		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		254.91		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		90.446		NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:40:32 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:40:36 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

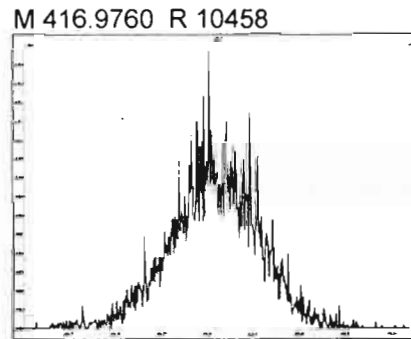
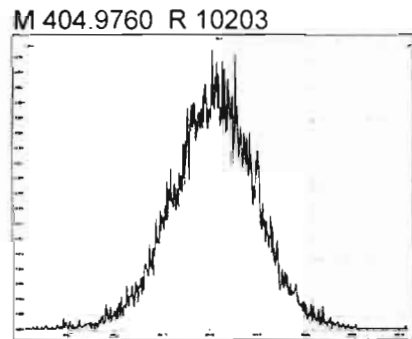
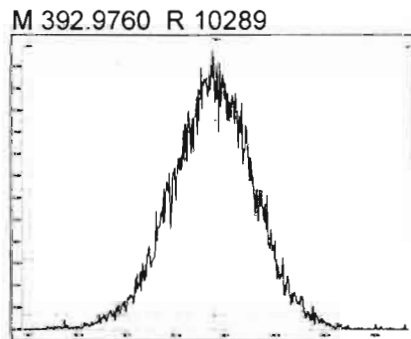
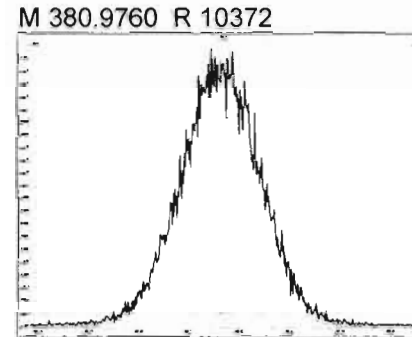
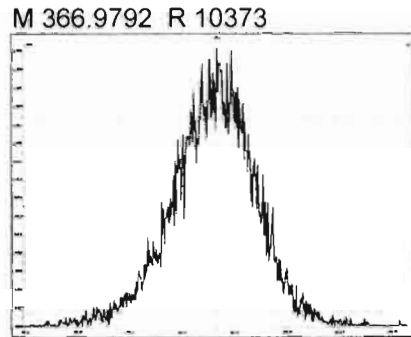
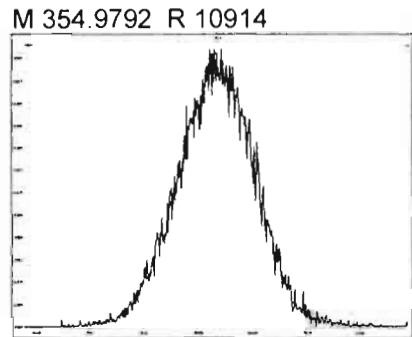
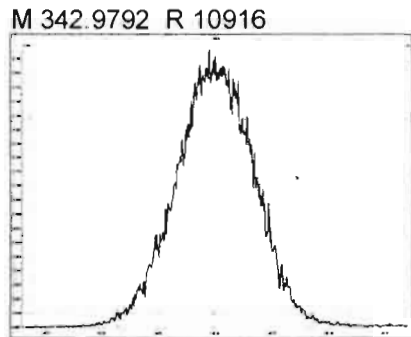
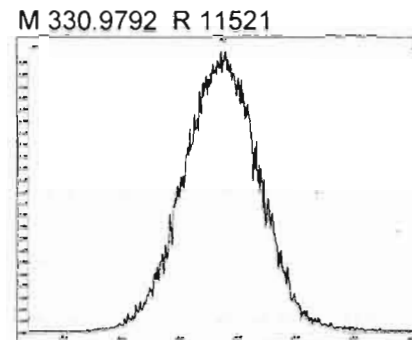
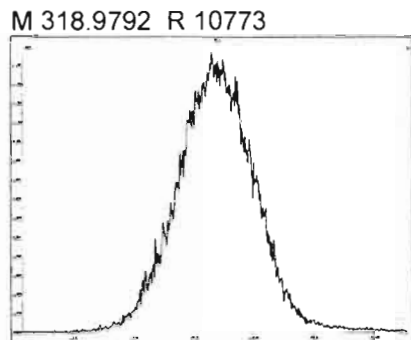
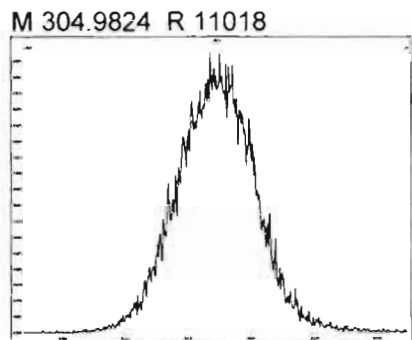
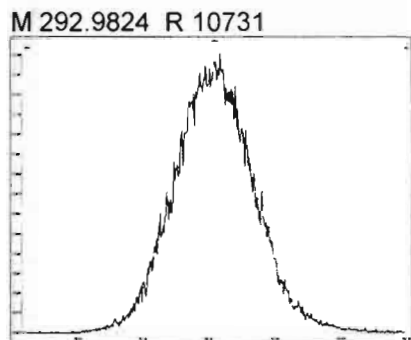
	Name	ID	Acq.Date	Acq.Time
1	(A) 200319R1_1	ST200319R1_1 1613 CS3 19L2305	19-Mar-20	16:18:06
2	(B) 200319R1_2	ST200319R1_2 1613 CS3 19L2305	19-Mar-20	17:08:32
3	200319R1_3	B0B0187-BS1 OPR 10	19-Mar-20	17:54:46
4	200319R1_4	B0C0040-BS1 OPR 10	19-Mar-20	18:42:22
5	200319R1_5	SOLVENT BLANK	19-Mar-20	19:30:06
6	200319R1_6	B0B0187-BLK1 Method Blank 10	19-Mar-20	20:17:51
7	200319R1_7	B0C0040-BLK1 Method Blank 10	19-Mar-20	21:05:36
8	200319R1_8	2000440-05 PDI-066SC-A-13-14-191011 17.4	19-Mar-20	21:53:14
9	200319R1_9	B0B0187-DUP1 Duplicate 12.19	19-Mar-20	22:40:53
10	200319R1_10	2000195-01 PDI-062SC-A-10-11-191023 12.2	19-Mar-20	23:28:38
11	200319R1_11	2000195-02 PDI-066SC-A-07-08-191011 16.75	20-Mar-20	00:16:22
12	200319R1_12	2000195-03 PDI-066SC-A-08-09-191011 17.12	20-Mar-20	01:04:01
13	200319R1_13	2000195-04 PDI-067SC-A-06-07-191010 13.34	20-Mar-20	01:51:41
14	200319R1_14	1903654-05RE3@5X PDI-075SC-B-00-02-191...	20-Mar-20	02:39:26
15	200319R1_15	1903654-08RE3@5X PDI-075SC-B-06-08-191...	20-Mar-20	03:27:05
16	200319R1_16	1903654-11RE3@5X PDI-076SC-B-05-07-191...	20-Mar-20	04:14:45

(A) USED TO ADJUST WINDOWS

(B) USED FOR RUN

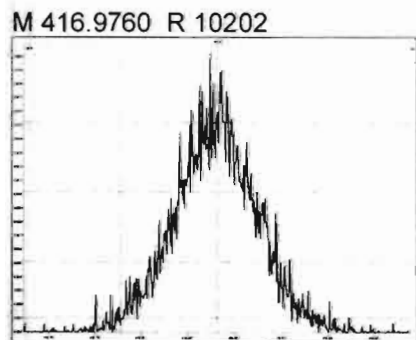
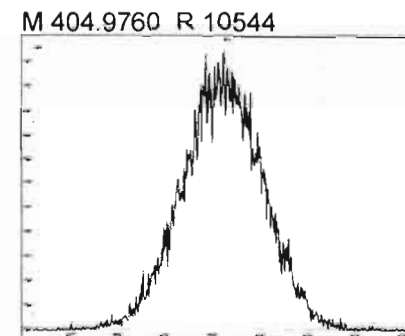
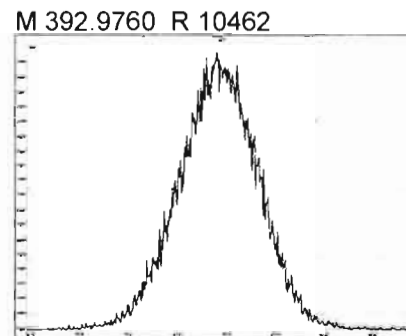
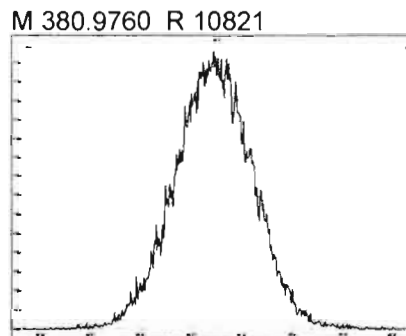
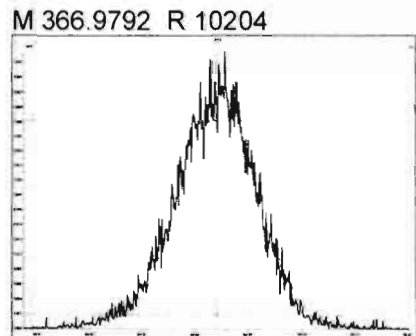
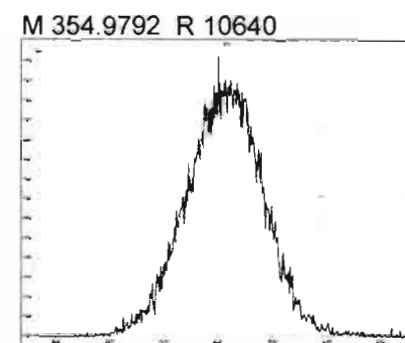
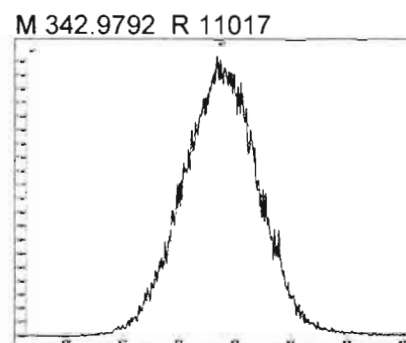
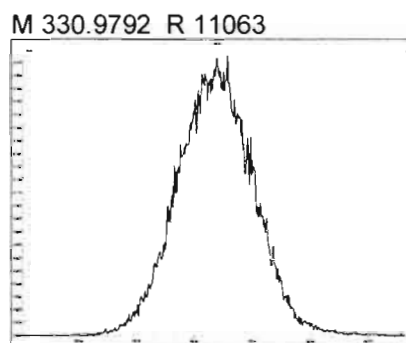
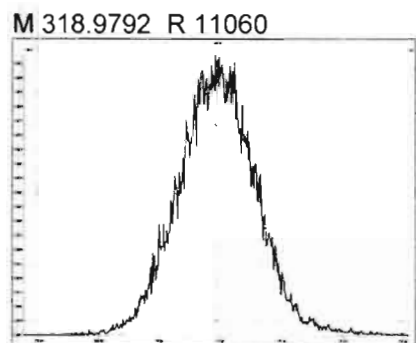
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Printed: Thursday, March 19, 2020 16:12:39 Pacific Daylight Time



File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

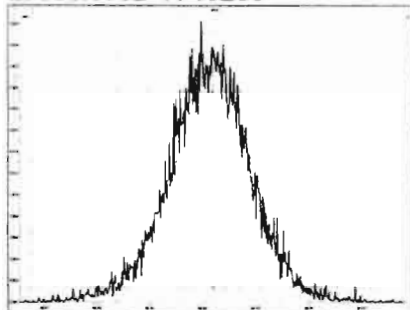
Printed: Thursday, March 19, 2020 16:13:31 Pacific Daylight Time



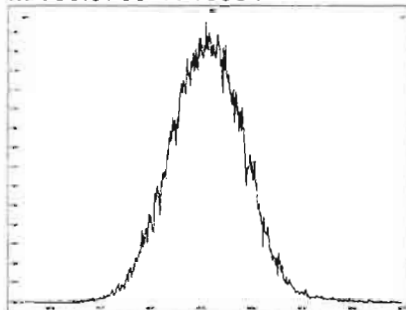
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Printed: Thursday, March 19, 2020 16:14:09 Pacific Daylight Time

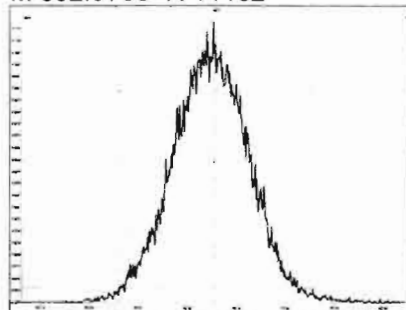
M 366.9792 R 10288



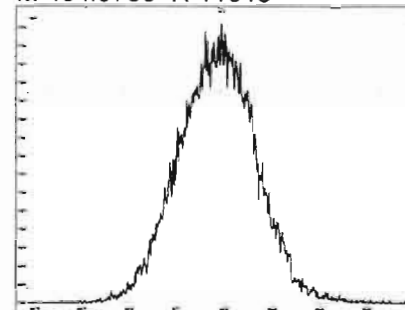
M 380.9760 R 10964



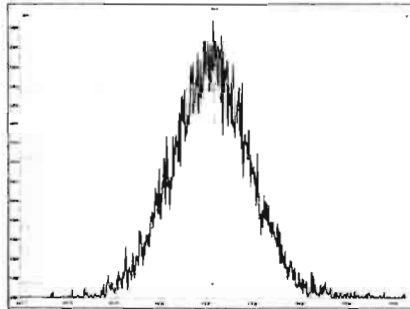
M 392.9760 R 11162



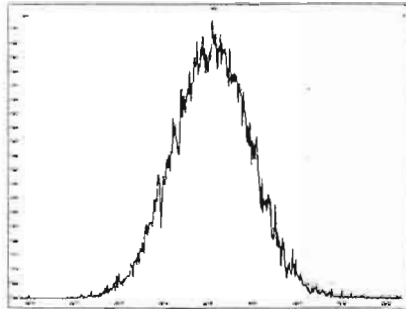
M 404.9760 R 11013



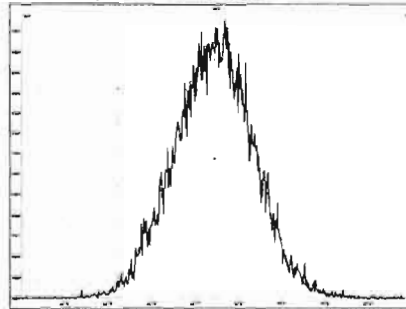
M 416.9760 R 11523



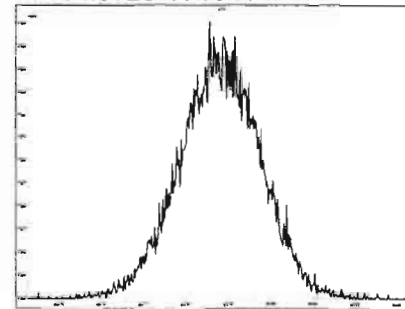
M 430.9728 R 10635



M 442.9728 R 10592

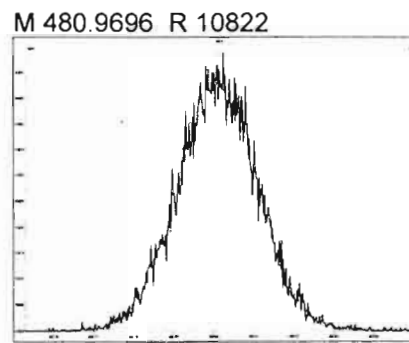
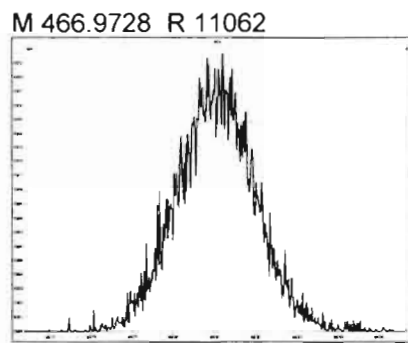
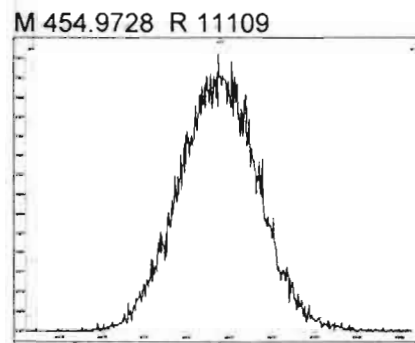
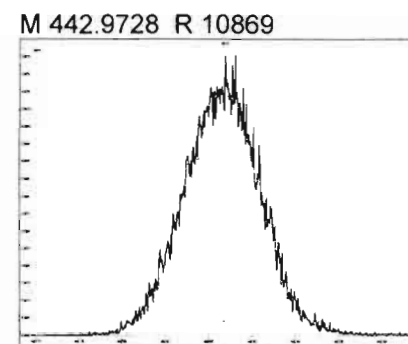
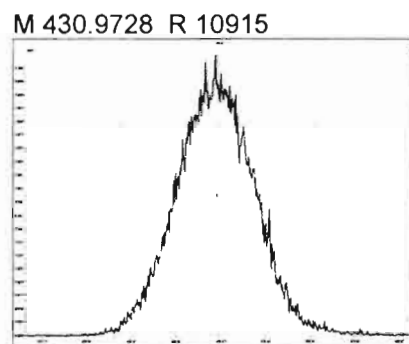
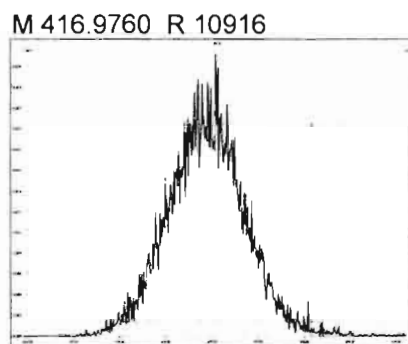
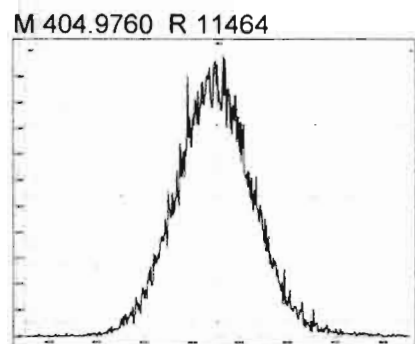


M 454.9728 R 10414



File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

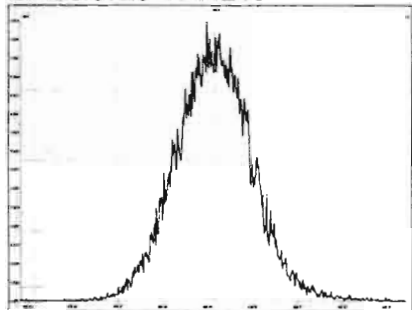
Printed: Thursday, March 19, 2020 16:14:39 Pacific Daylight Time



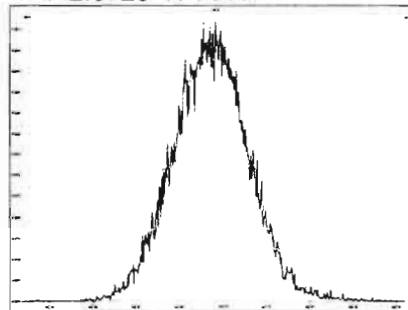
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Printed: Thursday, March 19, 2020 16:15:29 Pacific Daylight Time

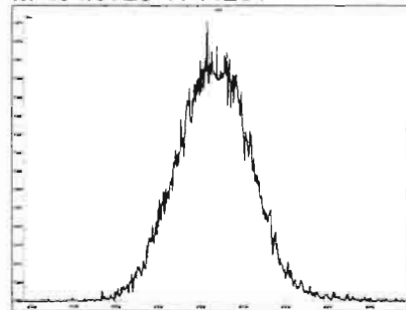
M 430.9728 R 11210



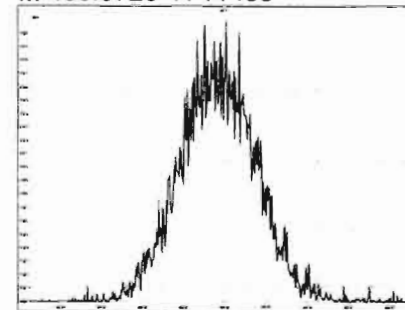
M 442.9728 R 11417



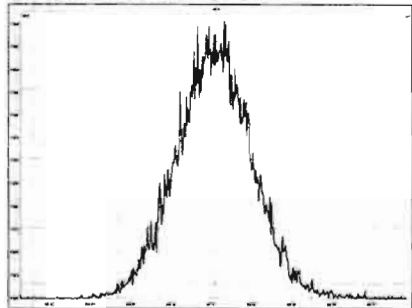
M 454.9728 R 11261



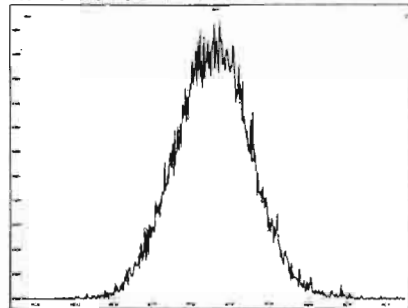
M 466.9728 R 11466



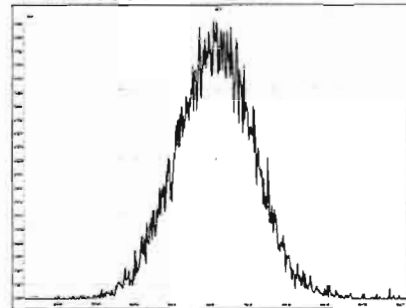
M 480.9696 R 10731



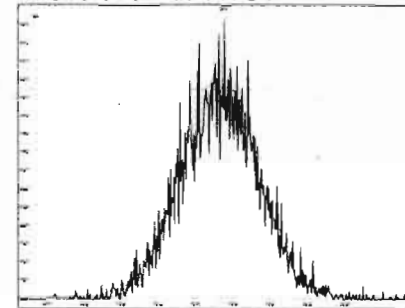
M 492.9696 R 11013



M 504.9696 R 11212



M 516.9697 R 11734



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:35:30 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:38:43 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.39
2	2 1,2,8,9-TCDD (Last)	26.83
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	33.02
6	6 1,2,3,7,8,9-HxCDD (Last)	34.85
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.26
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.28
9	9 1,3,6,8-TCDF (First)	19.39
10	10 1,2,8,9-TCDF (Last)	26.99
11	11 1,3,4,6,8-PeCDF (First)	26.96
12	12 1,2,3,8,9-PeCDF (Last)	31.74
13	13 1,2,3,4,6,8-HxCDF (First)	32.45
14	14 1,2,3,7,8,9-HxCDF (Last)	35.19
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.89
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:35:30 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:38:43 Pacific Daylight Time

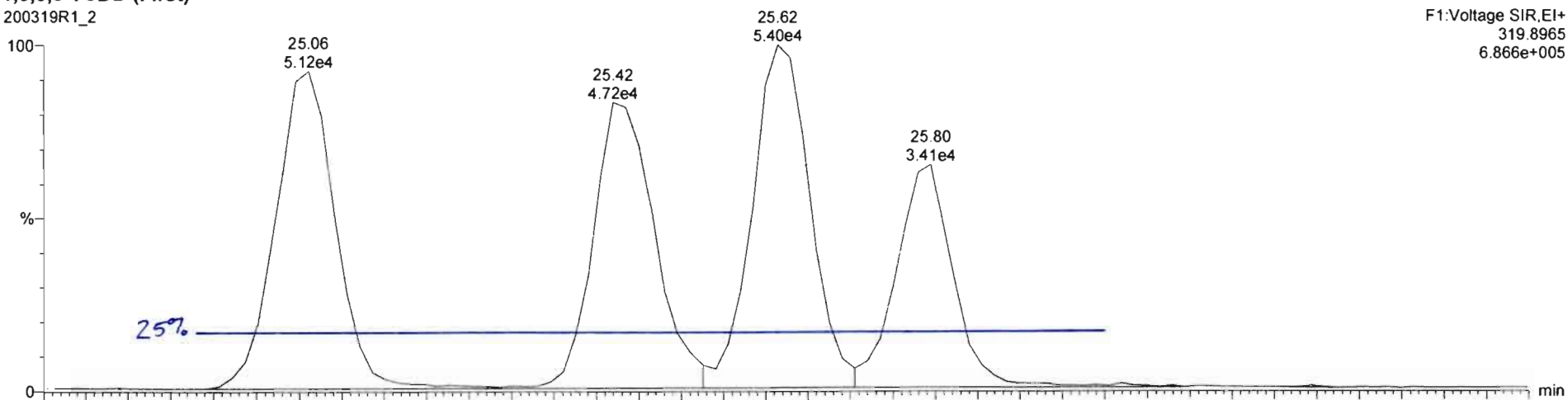
GRB 03/20/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

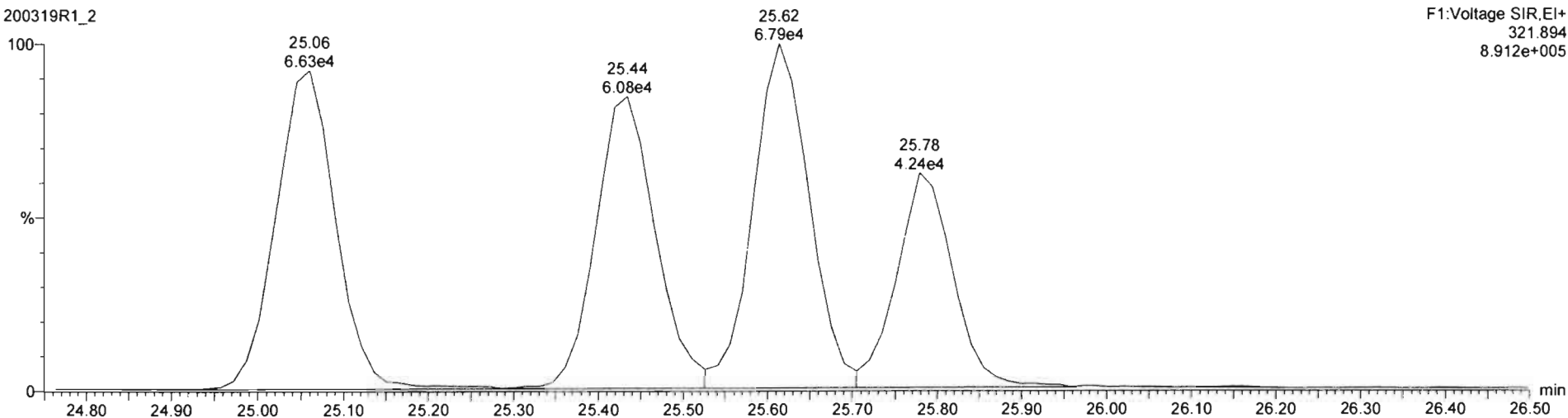
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200319R1_2



200319R1_2



Dataset: Untitled

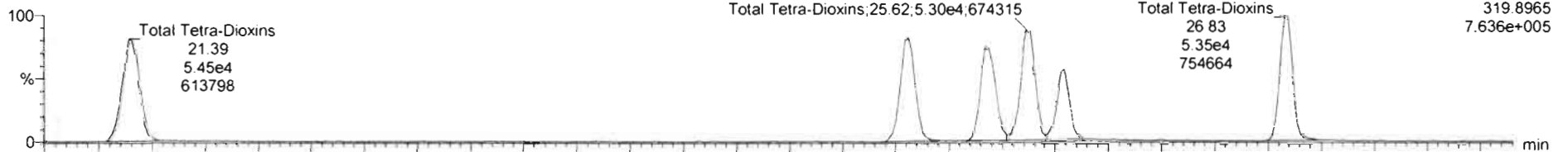
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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

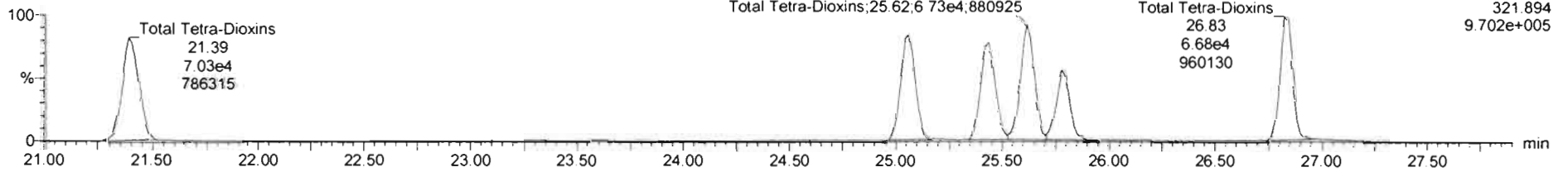
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200319R1_2

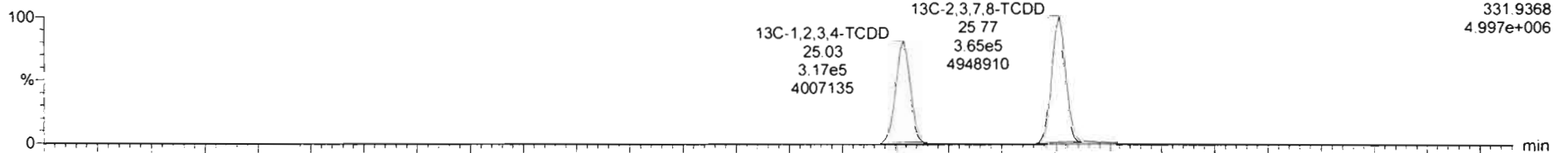


200319R1_2

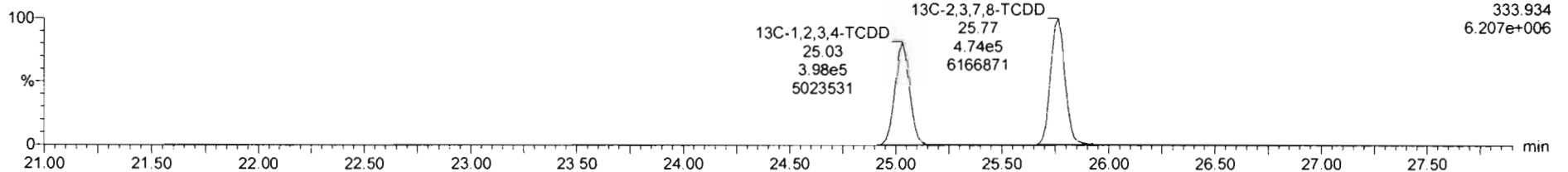


13C-2,3,7,8-TCDD

200319R1_2



200319R1_2



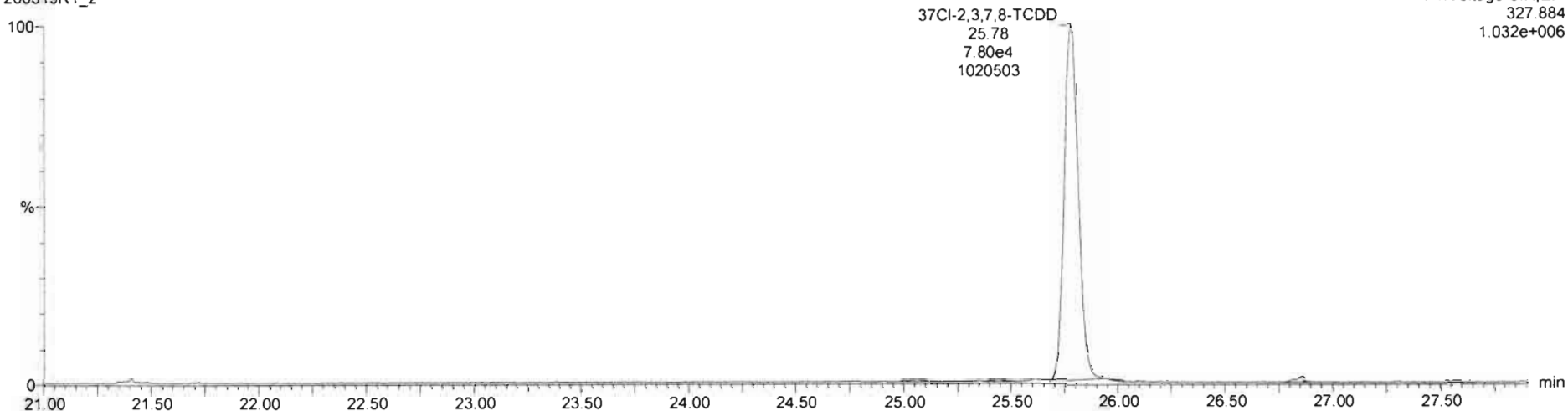
Dataset: Untitled

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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

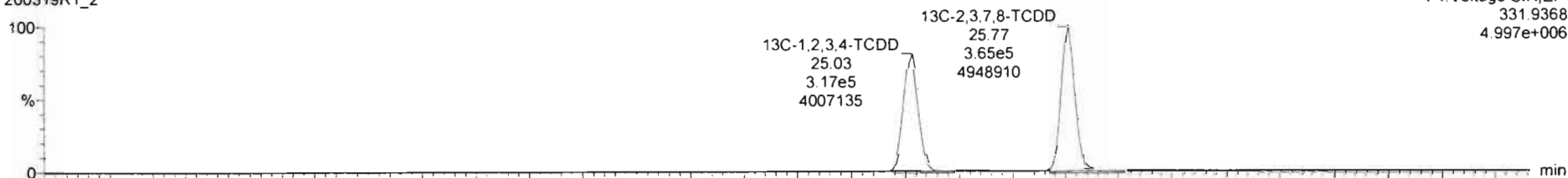
37Cl-2,3,7,8-TCDD

200319R1_2

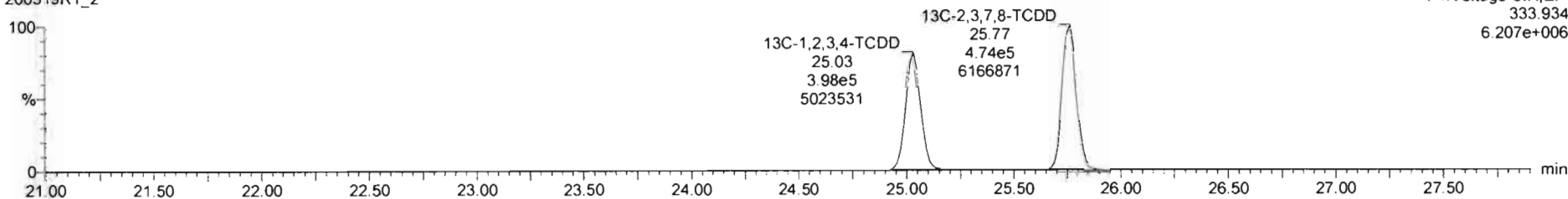


13C-1,2,3,4-TCDD

200319R1_2



200319R1_2



Dataset: Untitled

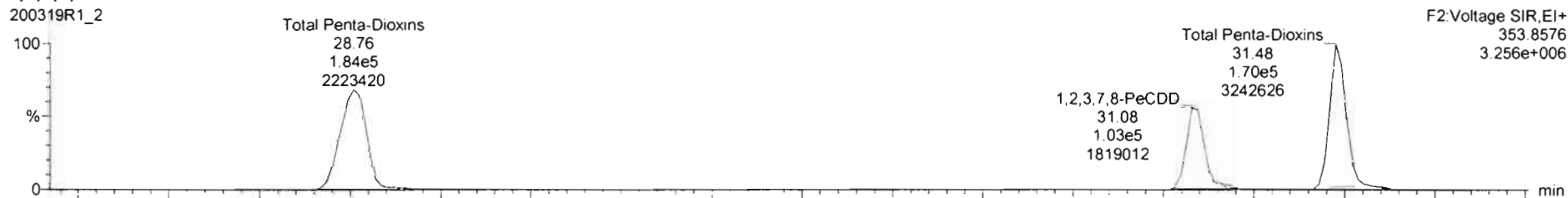
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

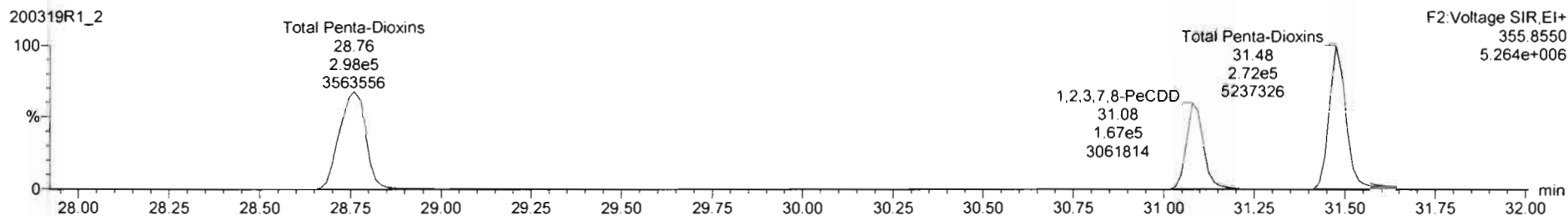
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200319R1_2

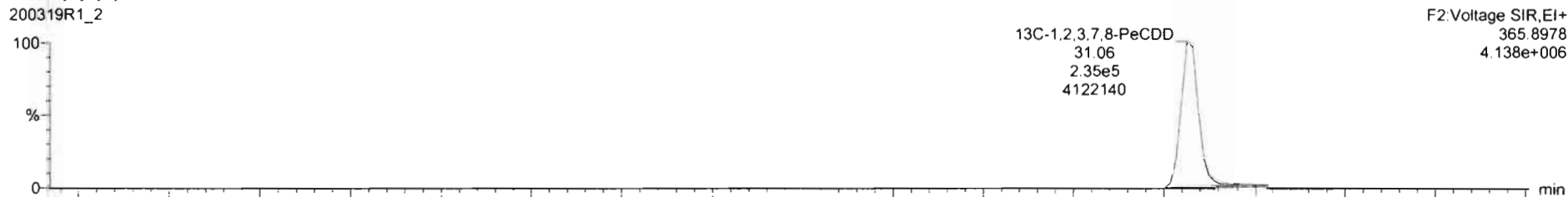


200319R1_2

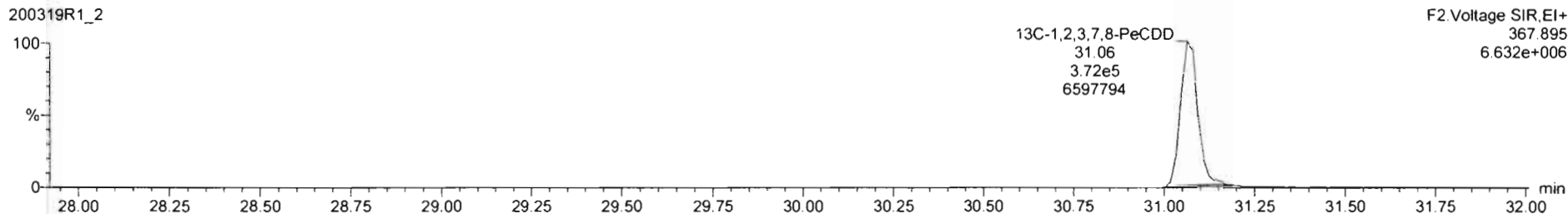


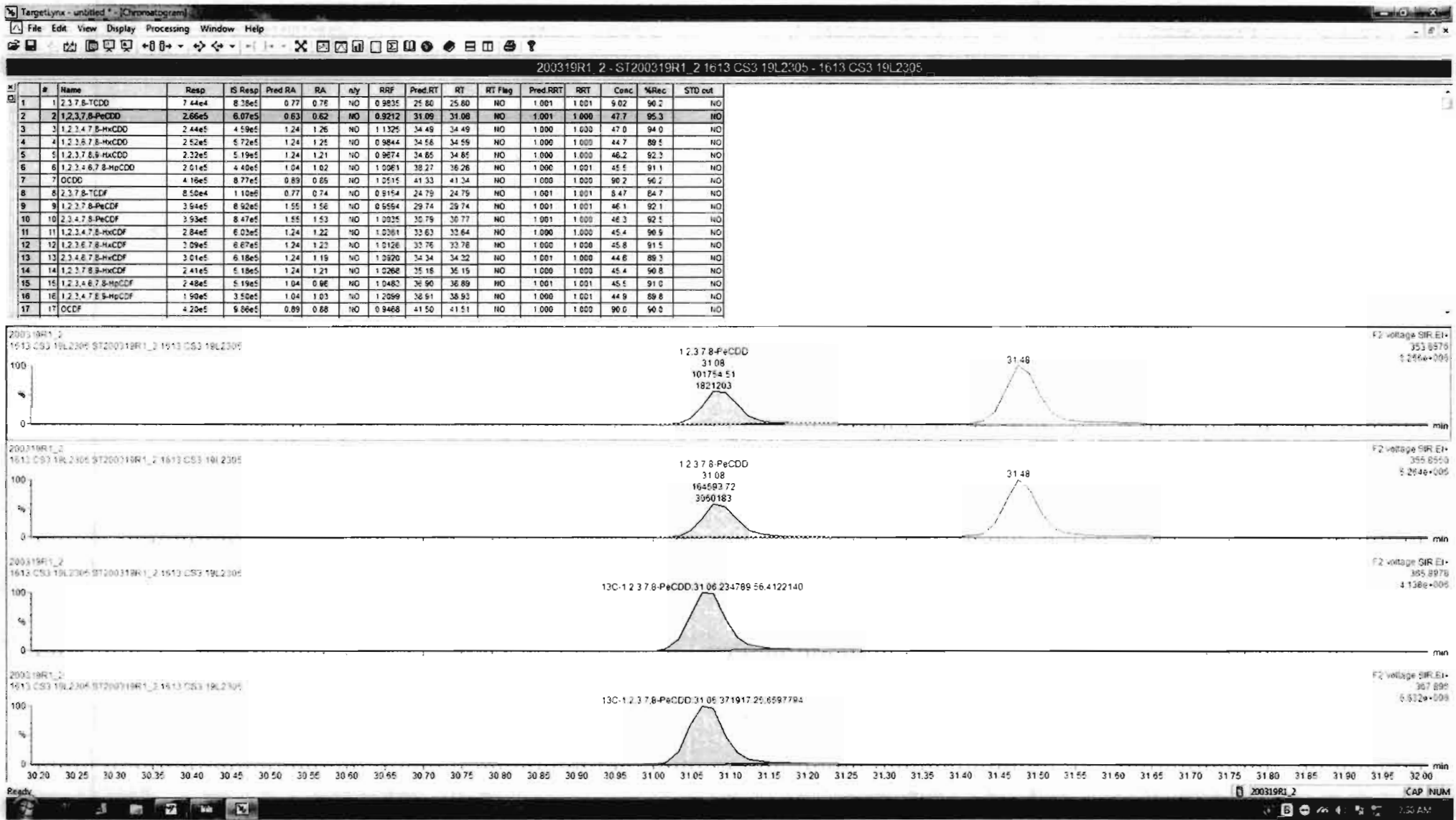
13C-1,2,3,7,8-PeCDD

200319R1_2



200319R1_2





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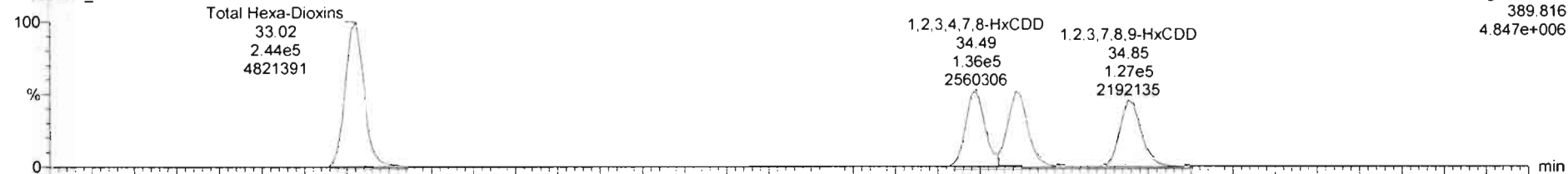
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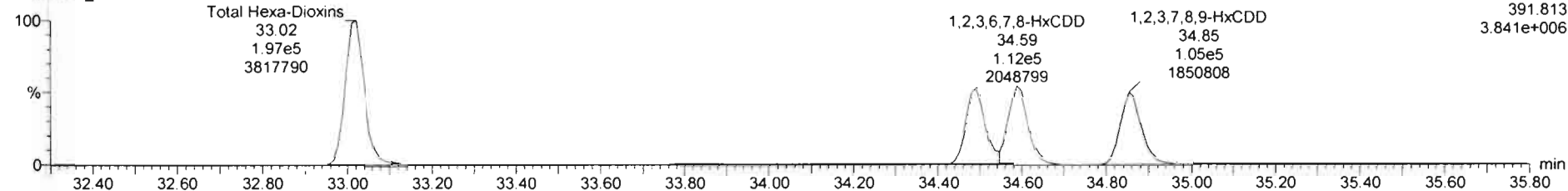
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1,2,3,4,7,8-HxCDD

200319R1_2

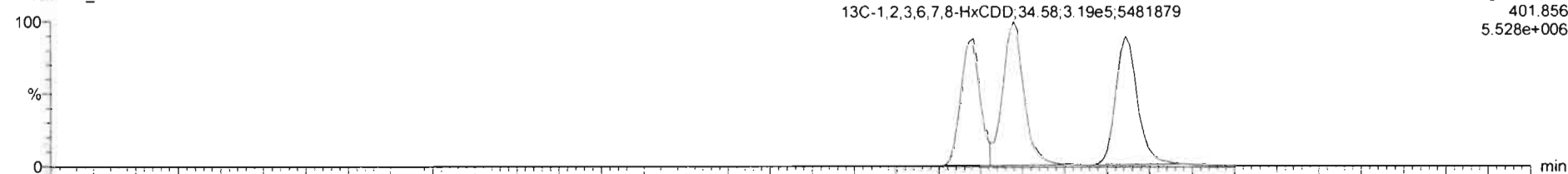


200319R1_2

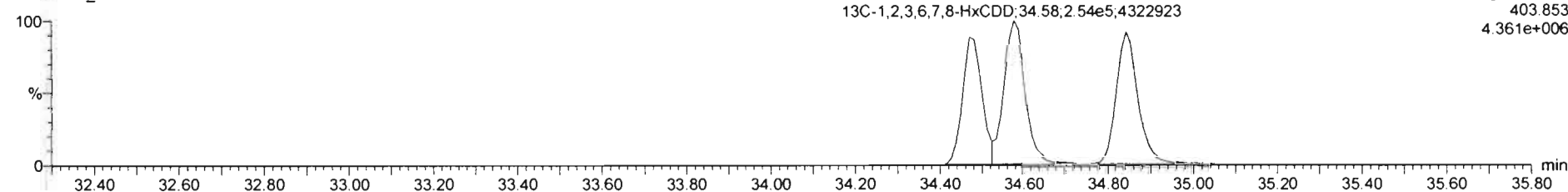


13C-1,2,3,4,7,8-HxCDD

200319R1_2



200319R1_2



Dataset: Untitled

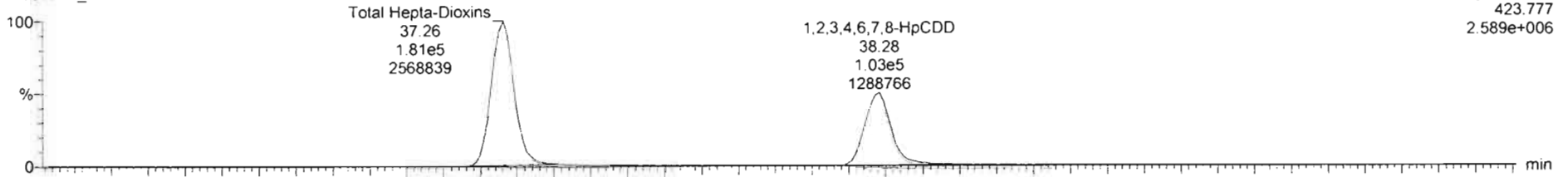
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

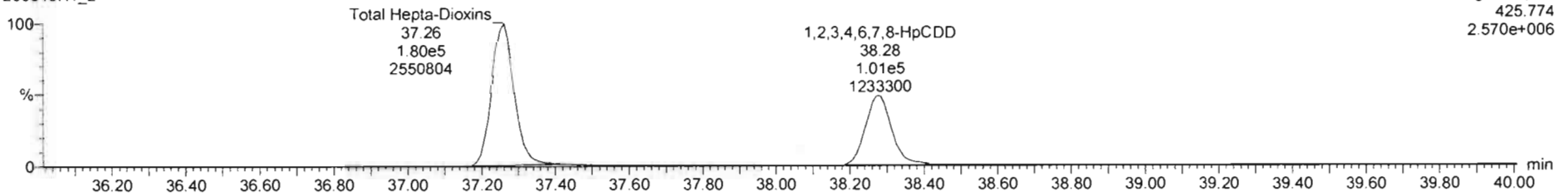
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1,2,3,4,6,7,8-HpCDD

200319R1_2

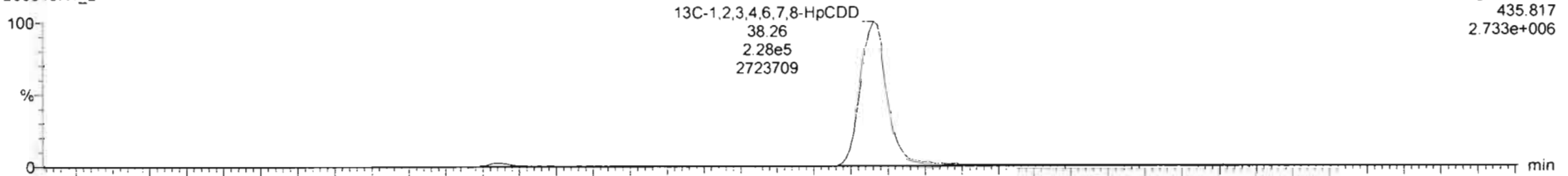


200319R1_2

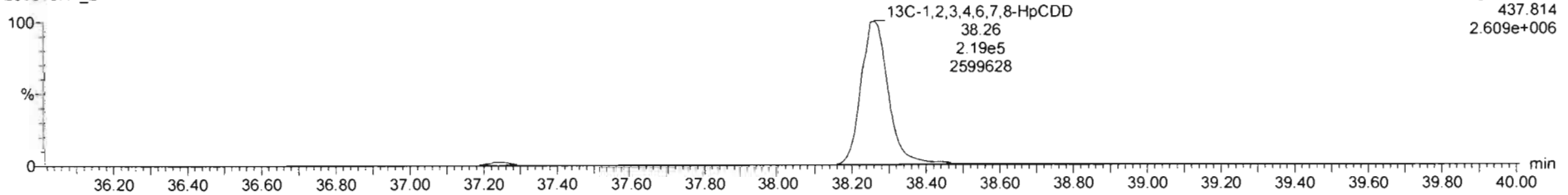


13C-1,2,3,4,6,7,8-HpCDD

200319R1_2



200319R1_2



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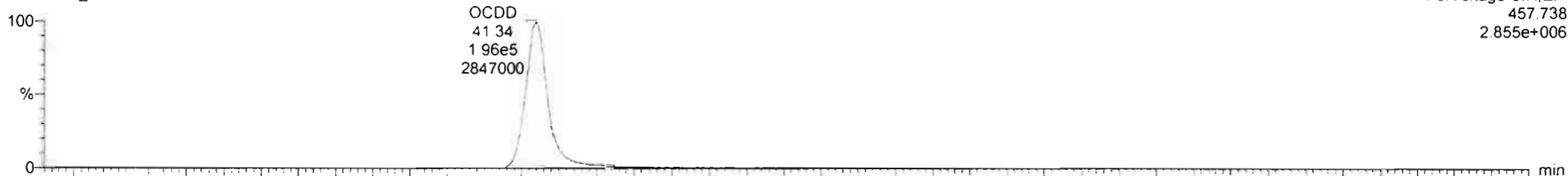
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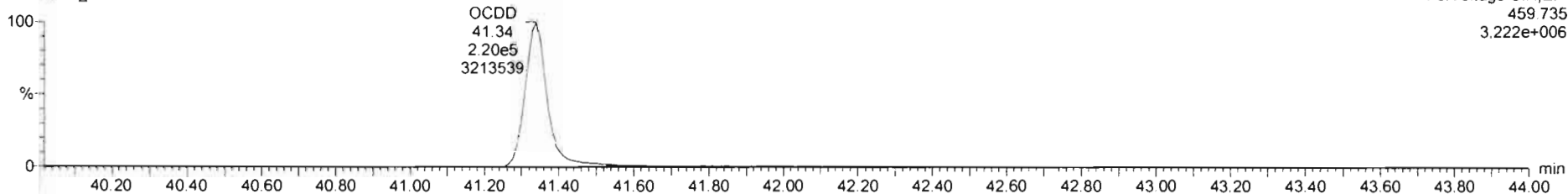
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OCDD

200319R1_2

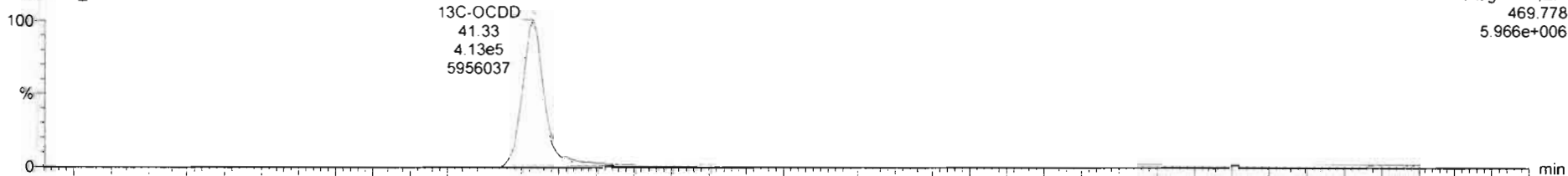


200319R1_2

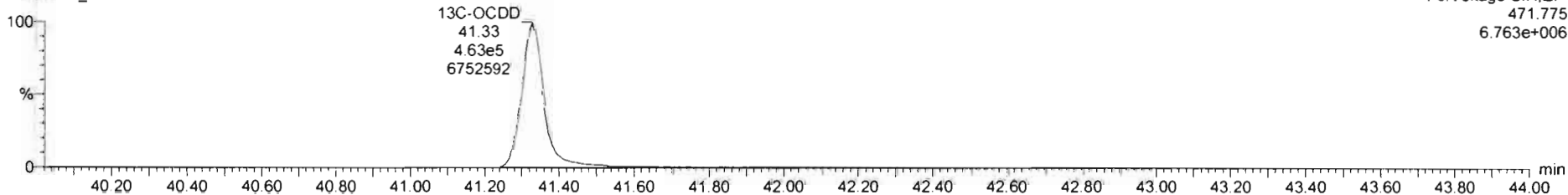


13C-OCDD

200319R1_2

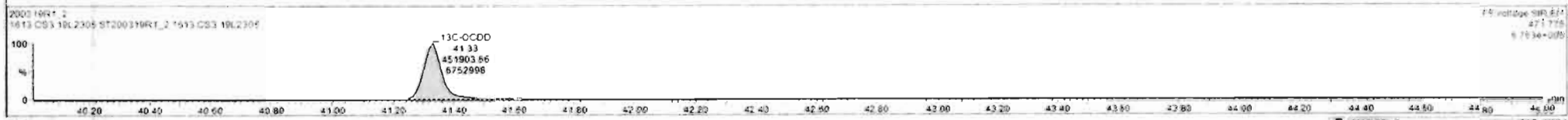


200319R1_2



200319R1_2 - ST200319R1_2 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	7.44e4	8.36e5	0.77	0.76	NO	0.5635	25.80	25.80	NO	1.001	1.001	9.02	90.2	NO
2	1,2,3,7,8-PeCDD	2.66e5	6.07e5	0.63	0.62	NO	0.9212	31.05	31.05	NO	1.001	1.000	47.7	95.3	NO
3	1,2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.49	NO	1.000	1.000	47.0	94.6	NO
4	1,2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.59	NO	1.000	1.000	44.7	89.5	NO
5	1,2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9674	34.85	34.85	NO	1.000	1.000	46.2	92.3	NO
6	1,2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0061	38.27	38.28	NO	1.000	1.001	45.5	91.1	NO
7	OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.33	41.34	NO	1.000	1.000	89.5	89.5	NO
8	2,3,7,8-TCDF	8.50e4	1.10e5	0.77	0.74	NO	0.9154	24.78	24.79	NO	1.001	1.001	6.47	84.7	NO
9	1,2,3,7,8-PeCDF	3.94e5	6.92e5	1.55	1.56	NO	0.5594	29.74	29.74	NO	1.001	1.001	46.1	92.1	NO
10	1,2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0055	30.79	30.77	NO	1.001	1.000	46.3	92.5	NO
11	1,2,3,4,7,8-HxCDF	2.84e5	6.03e5	1.24	1.22	NO	1.0761	33.63	33.64	NO	1.000	1.000	45.4	90.9	NO
12	1,2,3,6,7,8-HxCDF	3.09e5	6.67e5	1.24	1.23	NO	1.0126	33.76	33.76	NO	1.000	1.000	45.8	91.5	NO
13	1,2,3,4,6,7,8-HxCDF	3.01e5	6.16e5	1.24	1.19	NO	1.0920	34.34	34.32	NO	1.001	1.000	44.6	89.3	NO
14	1,2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0268	35.18	35.19	NO	1.000	1.000	45.4	90.8	NO
15	1,2,3,4,6,7,8-HpCDF	2.48e5	5.19e5	1.04	0.96	NO	1.0483	36.90	36.89	NO	1.001	1.001	45.5	91.0	NO
16	1,2,3,4,7,8,9-HpCDF	1.90e5	3.50e5	1.04	1.03	NO	1.2099	38.91	38.93	NO	1.000	1.001	44.9	89.8	NO
17	OCDF	4.20e5	9.86e5	0.89	0.86	NO	0.9468	41.50	41.51	NO	1.000	1.000	90.0	90.0	NO

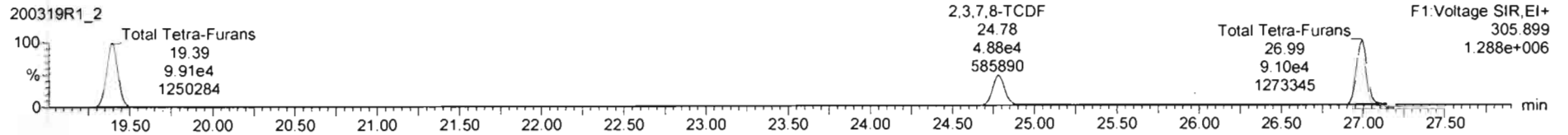
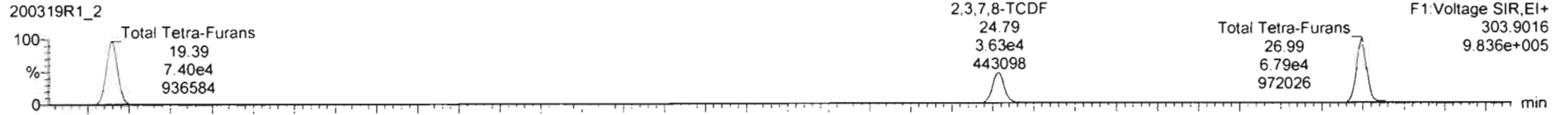


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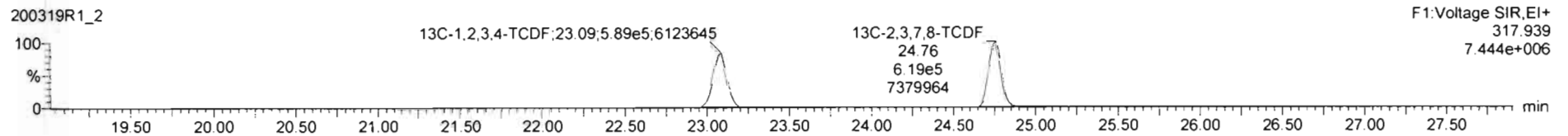
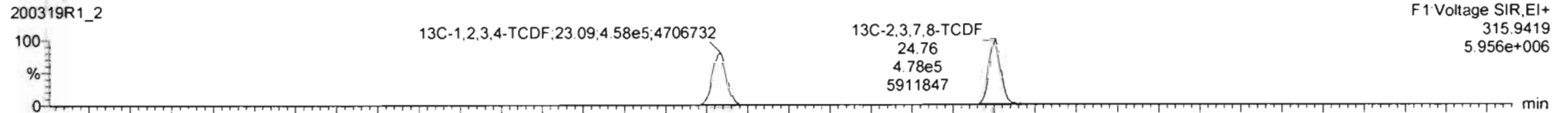
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

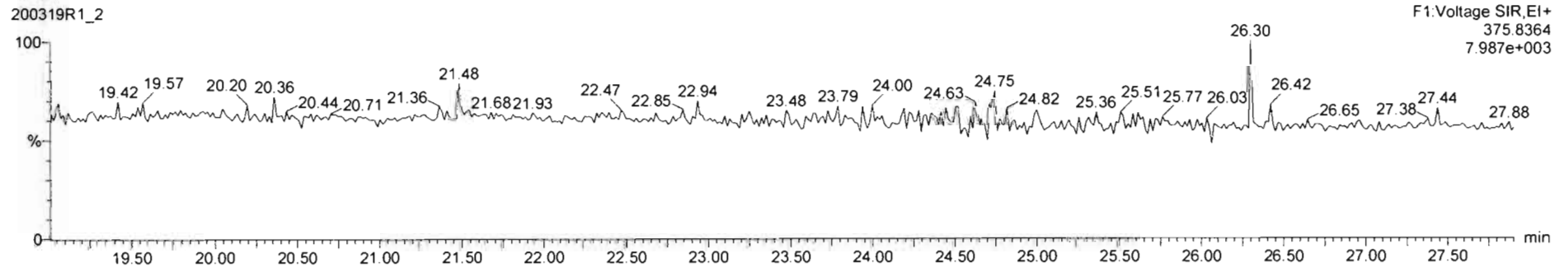
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



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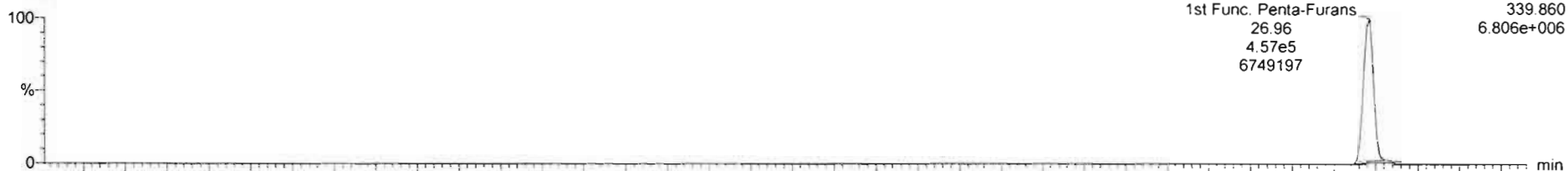
Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time

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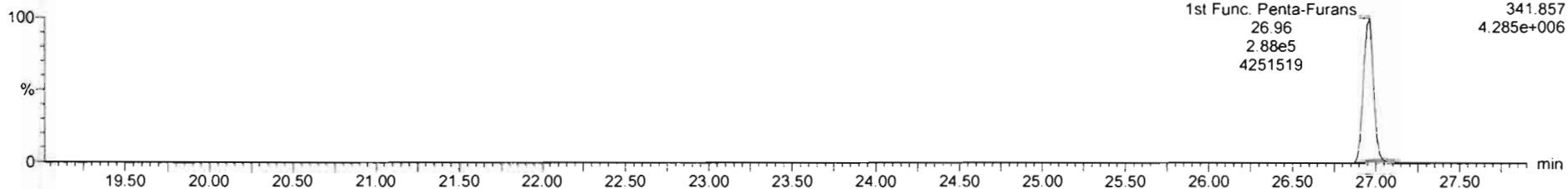
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200319R1_2

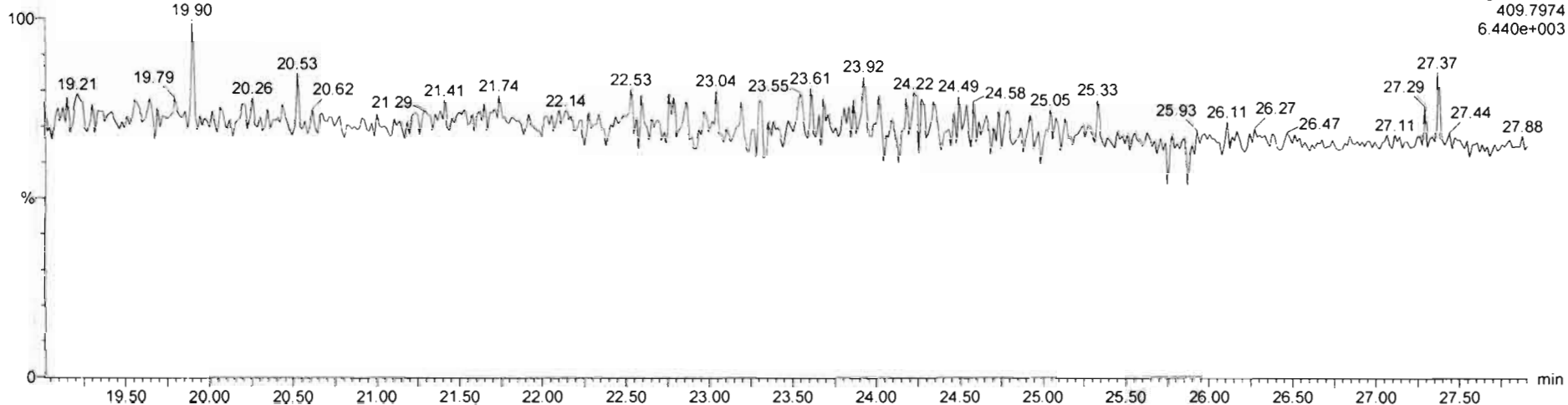


200319R1_2



DPE6

200319R1_2



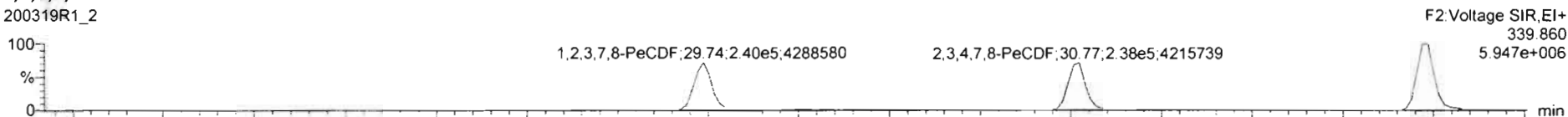
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

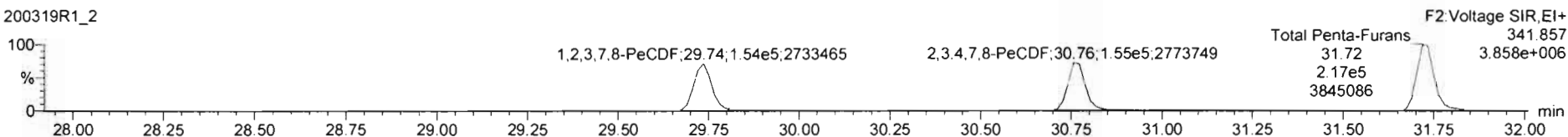
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1,2,3,7,8-PeCDF

200319R1_2

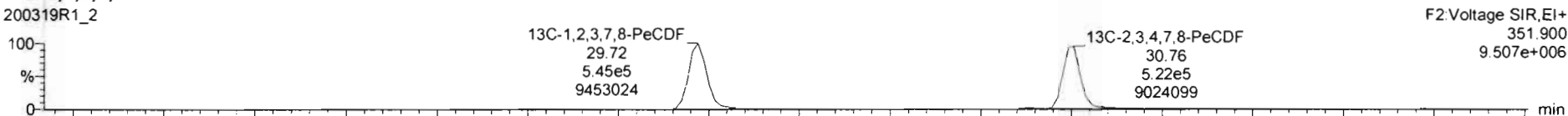


200319R1_2

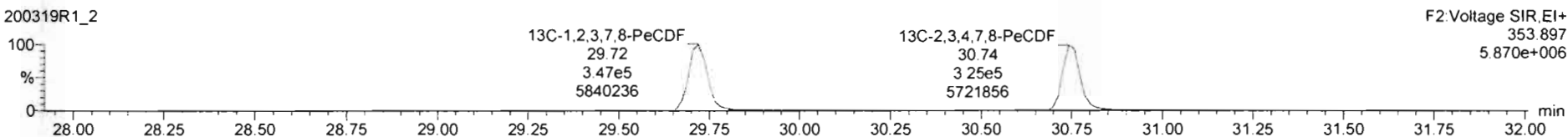


13C-1,2,3,7,8-PeCDF

200319R1_2

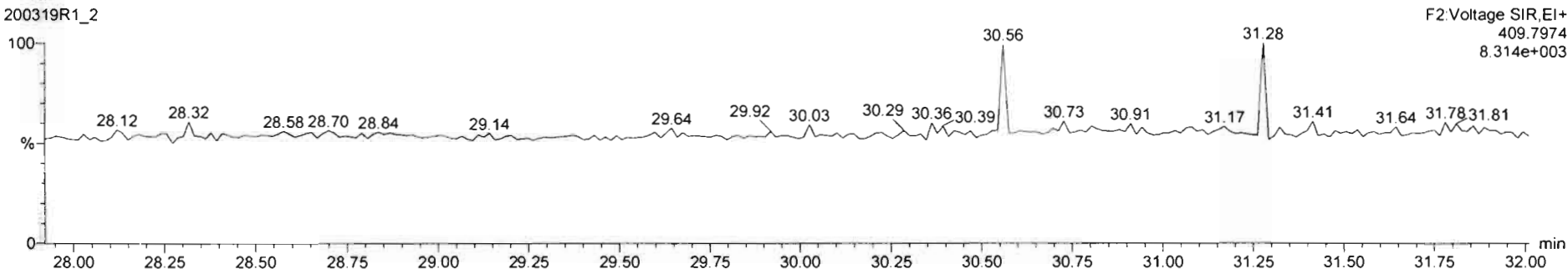


200319R1_2



DPE2

200319R1_2



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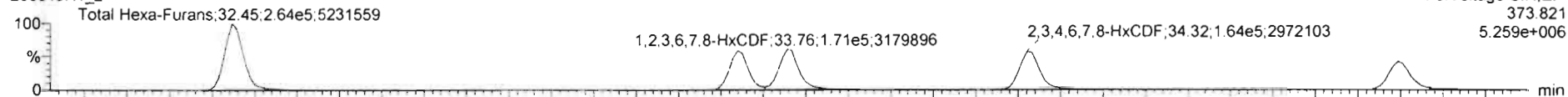
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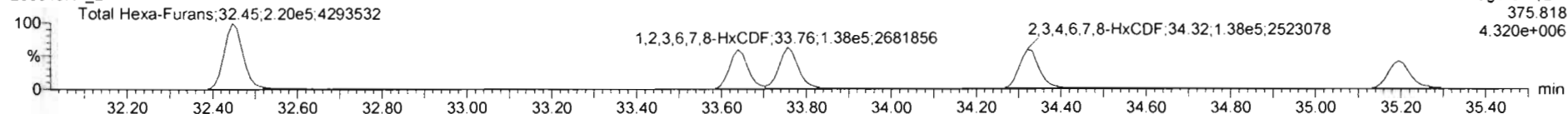
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1,2,3,4,7,8-HxCDF

200319R1_2

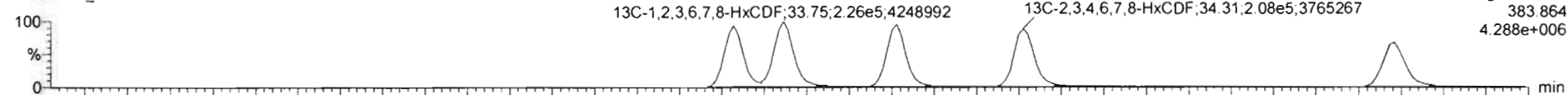


200319R1_2

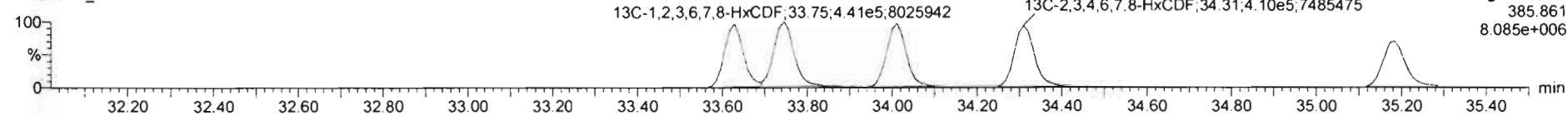


13C-1,2,3,4,7,8-HxCDF

200319R1_2

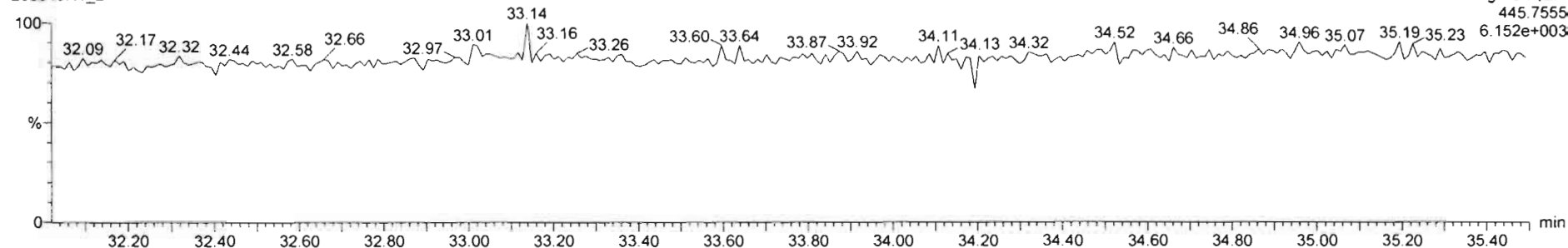


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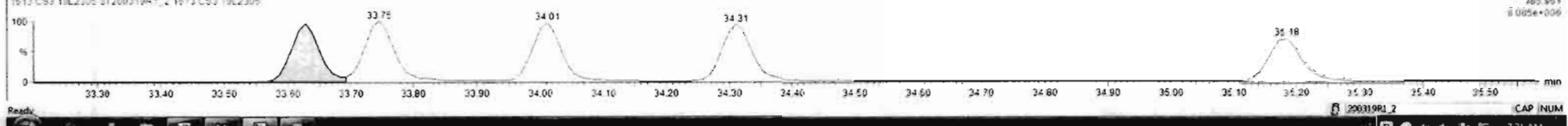
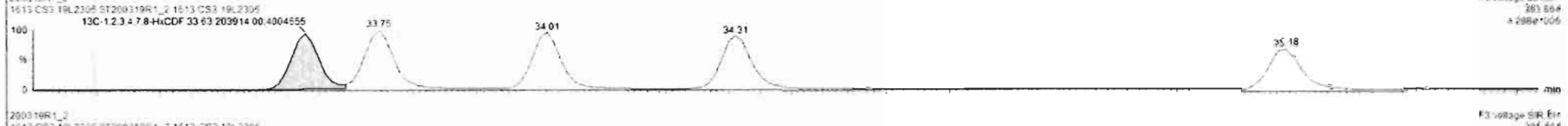
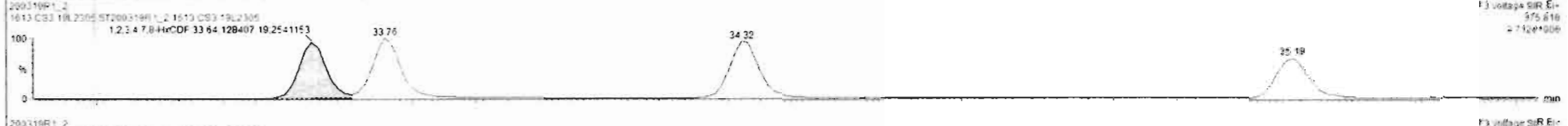
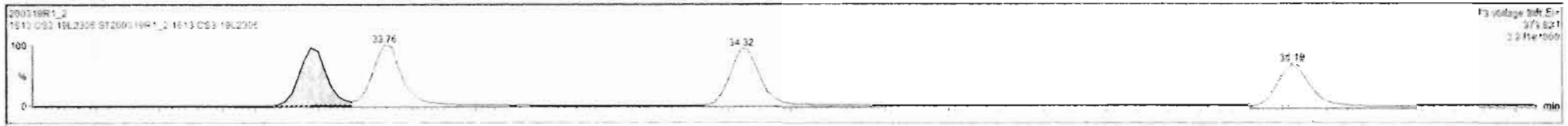


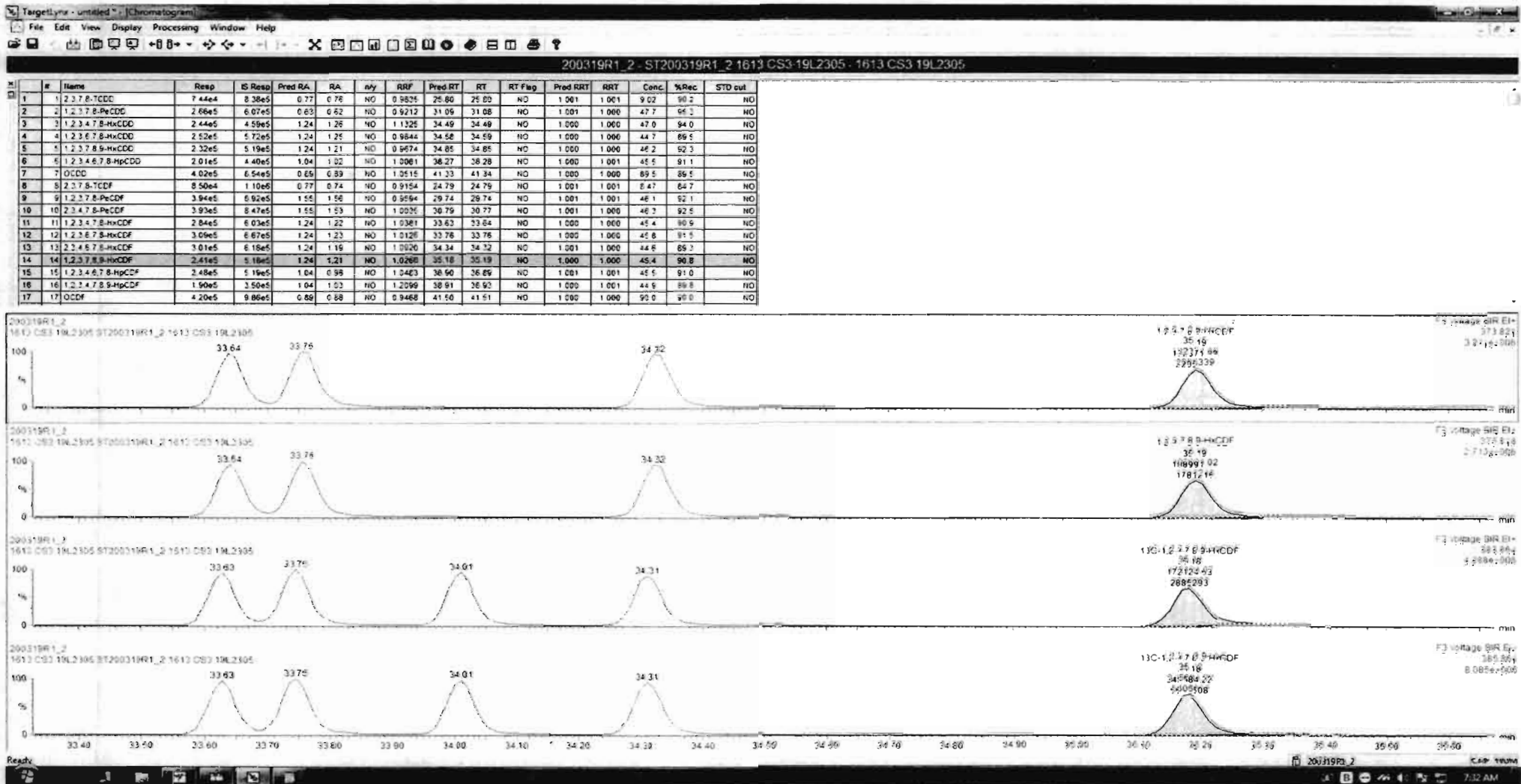
DPE3

200319R1_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	7.44e4	6.26e5	0.77	0.76	ND	0.5835	25.80	25.80	ND	1.001	1.001	9.02	90.2	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.07e5	0.63	0.62	ND	0.5212	31.09	31.08	ND	1.001	1.000	47.7	55.3	NO
3	1,2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.48	ND	1.000	1.000	47.0	94.0	NO
4	1,2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.59	ND	1.000	1.000	44.7	89.5	NO
5	1,2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9874	34.85	34.85	ND	1.000	1.000	46.2	92.3	NO
6	1,2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0061	38.27	38.28	ND	1.001	1.001	45.5	91.1	NO
7	OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.32	41.34	ND	1.000	1.000	89.5	89.5	NO
8	1,2,3,8-TCDF	8.50e4	1.10e6	0.77	0.74	NO	0.5154	24.79	24.79	ND	1.001	1.001	8.47	94.7	NO
9	1,2,3,7,8-PeCDF	3.94e5	8.92e5	1.55	1.56	NO	0.9594	29.74	29.74	ND	1.001	1.001	46.1	92.1	NO
10	1,2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0035	30.79	30.77	ND	1.001	1.000	46.3	92.5	NO
11	1,2,3,4,7,8-HxCDF	2.64e5	6.03e5	1.24	1.22	NO	1.0381	33.63	33.64	ND	1.000	1.000	45.4	90.9	NO
12	1,2,3,6,7,8-HxCDF	3.09e5	6.87e5	1.24	1.23	NO	1.0126	33.76	33.76	ND	1.000	1.000	45.8	91.5	NO
13	1,2,3,4,6,7,8-HxCDF	3.01e5	6.16e5	1.24	1.19	NO	1.0920	34.24	34.32	ND	1.001	1.000	44.6	89.3	NO
14	1,2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0265	35.18	35.19	ND	1.000	1.000	45.4	90.8	NO
15	1,2,3,4,6,7,8-HpCDF	2.48e5	5.19e5	1.04	0.98	NO	1.0483	36.90	36.89	ND	1.001	1.001	45.5	91.0	NO
16	1,2,3,4,7,8,9-HpCDF	1.50e5	3.50e5	1.04	1.03	NO	1.2089	38.91	38.93	ND	1.000	1.001	44.5	89.8	NO
17	OCDF	4.20e5	9.86e5	0.88	0.88	NO	0.9468	41.50	41.51	ND	1.000	1.000	90.6	90.0	NO





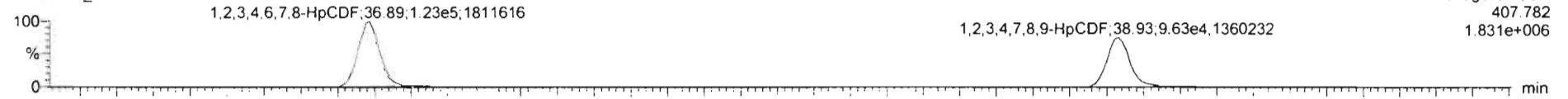
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

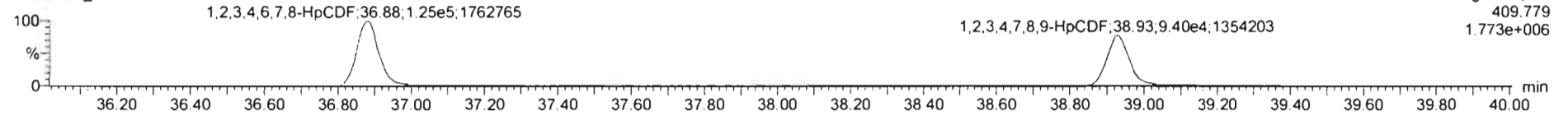
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1,2,3,4,6,7,8-HpCDF

200319R1_2

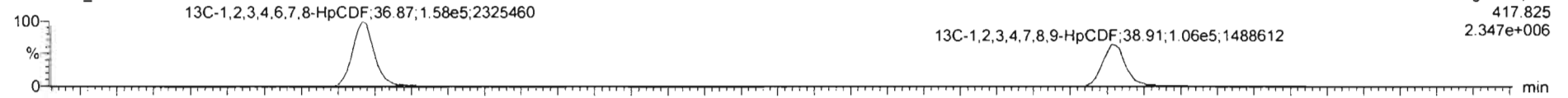


200319R1_2

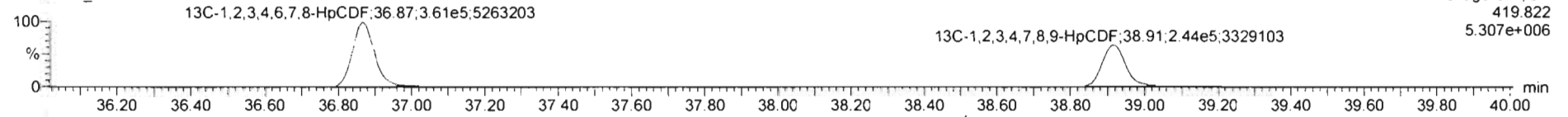


13C-1,2,3,4,6,7,8-HpCDF

200319R1_2

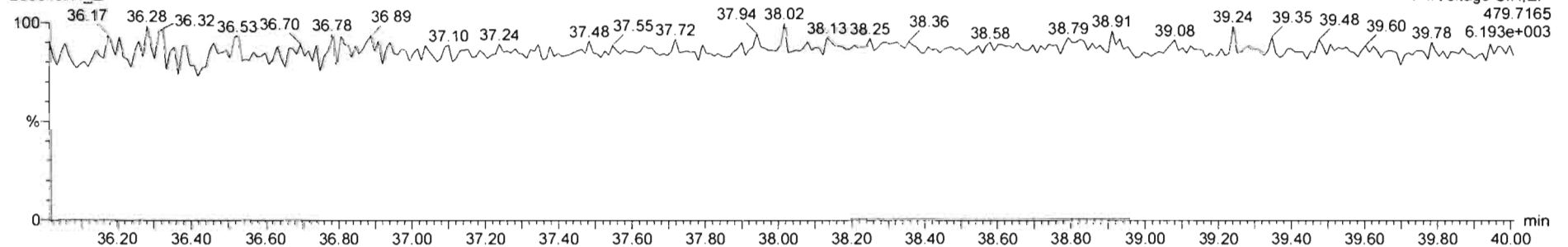


200319R1_2

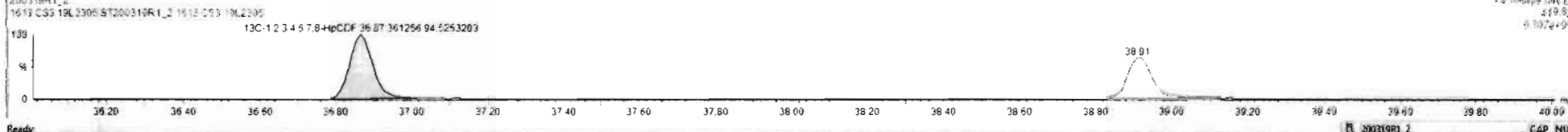


DPE4

200319R1_2



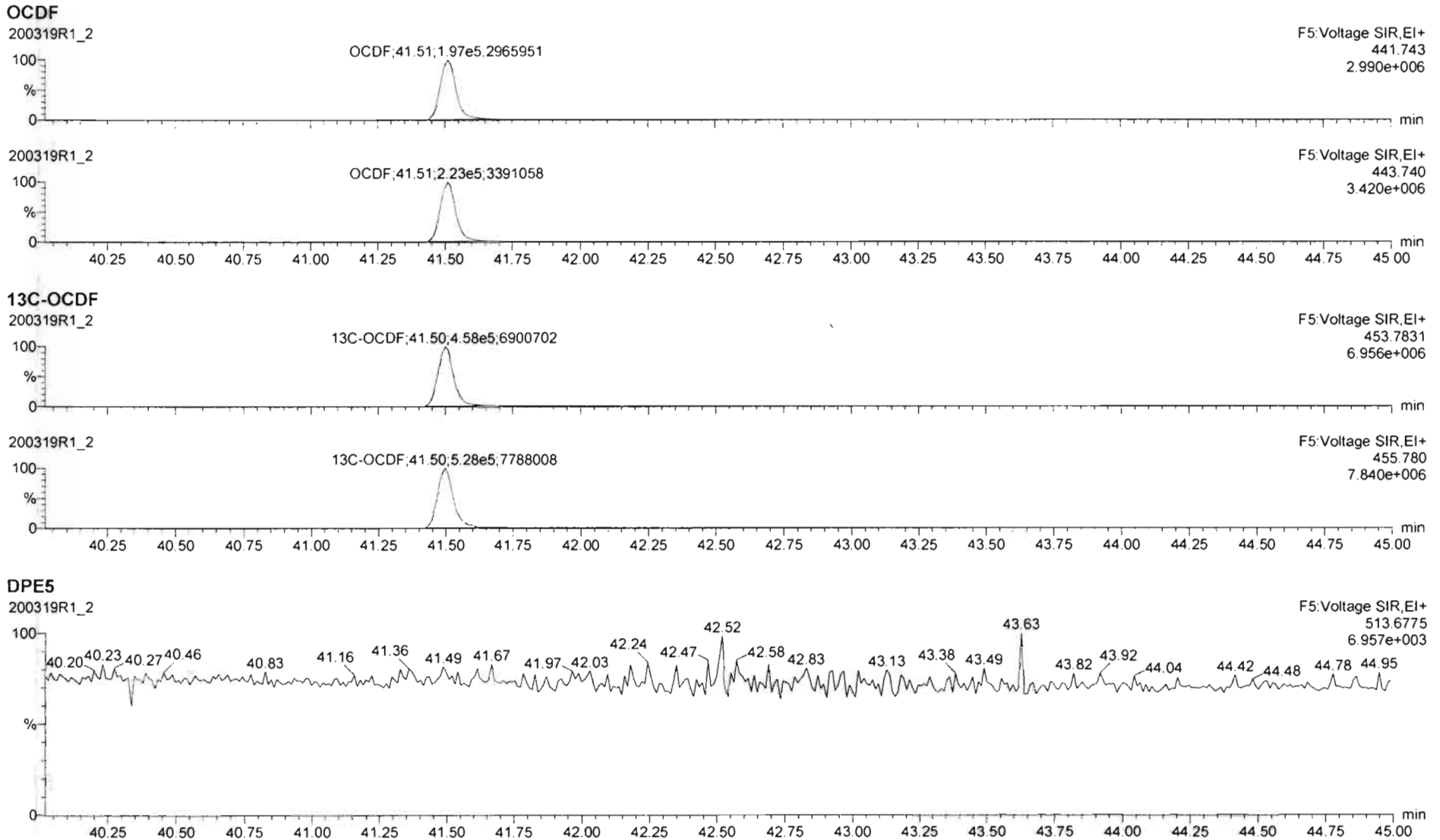
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	7.44e4	8.38e5	0.77	0.76	NO	0.9835	25.86	25.80	NO	1.001	1.001	9.02	90.2	NO
2	1 2,3,7,8-PeCDD	2.86e5	6.07e5	0.63	0.62	NO	0.9212	31.09	31.06	NO	1.001	1.000	47.7	95.3	NO
3	1 2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.45	NO	1.000	1.000	47.0	94.0	NO
4	1 2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.55	NO	1.000	1.000	44.7	89.5	NO
5	1 2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9674	34.65	34.65	NO	1.000	1.000	46.2	92.3	NO
6	1 2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0661	36.27	36.28	NO	1.000	1.001	45.5	91.1	NO
7	7 OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.33	41.34	NO	1.000	1.000	89.5	89.5	NO
8	2 2,3,7,8-TCDF	8.50e4	1.10e6	0.77	0.74	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.47	84.7	NO
9	1 2,3,7,8-PeCDF	3.94e5	8.52e5	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.001	46.1	92.1	NO
10	1 2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0035	30.79	30.77	NO	1.001	1.000	46.3	92.5	NO
11	1 2,3,4,7,8-HxCDF	2.84e5	6.03e5	1.24	1.22	NO	1.0781	33.63	33.64	NO	1.000	1.000	45.4	90.9	NO
12	1 2,3,6,7,8-HxCDF	2.09e5	6.67e5	1.24	1.23	NO	1.0126	33.76	33.76	NO	1.000	1.000	45.6	91.5	NO
13	1 2,3,4,6,7,8-HxCDF	3.01e5	8.18e5	1.24	1.19	NO	1.0920	34.34	34.32	NO	1.001	1.000	44.6	89.3	NO
14	1 2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0268	35.18	35.19	NO	1.000	1.000	45.4	90.8	NO
15	1 2,3,4,6,7,8-HpCDF	2.47e5	5.19e5	1.04	0.99	NO	1.0463	36.59	36.59	NO	1.001	1.001	45.4	90.7	NO
16	1 2,3,4,7,8,9-HpCDF	1.90e5	3.50e5	1.04	1.02	NO	1.2095	38.91	38.93	NO	1.000	1.001	44.9	89.8	NO
17	17 OCDF	4.20e5	9.82e5	0.89	0.88	NO	0.9468	41.50	41.51	NO	1.000	1.000	90.0	90.0	NO



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

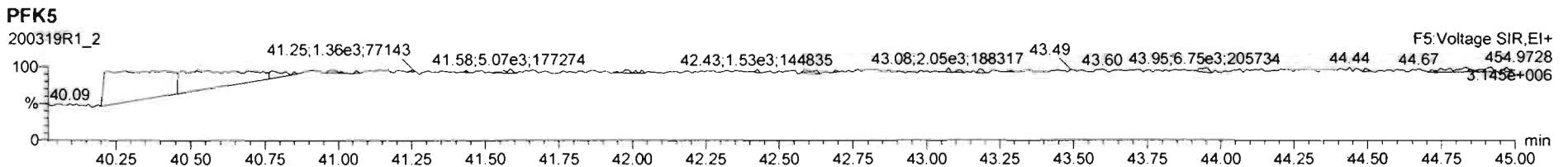
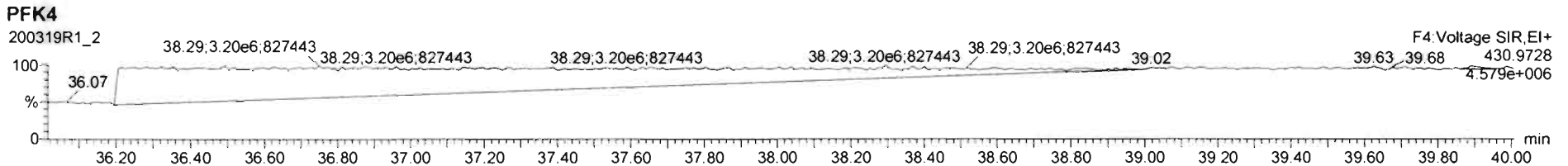
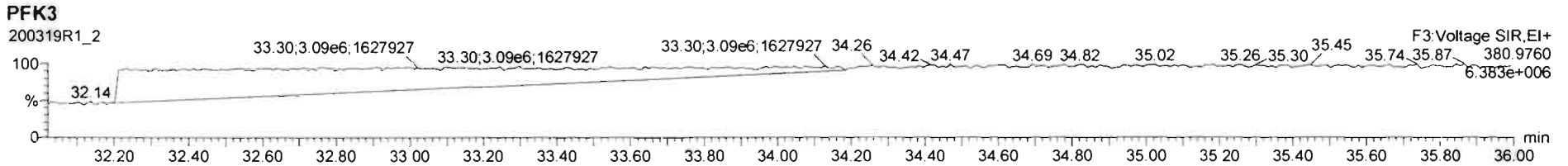
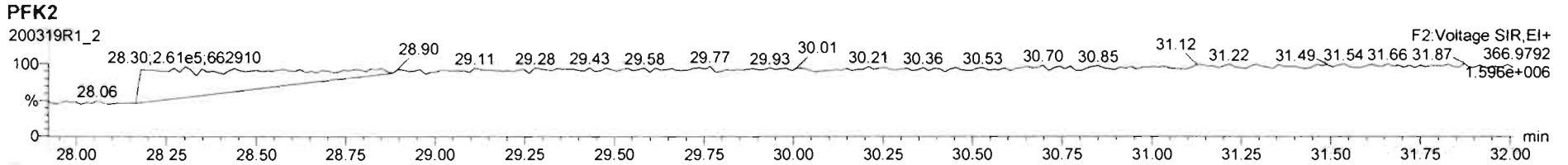
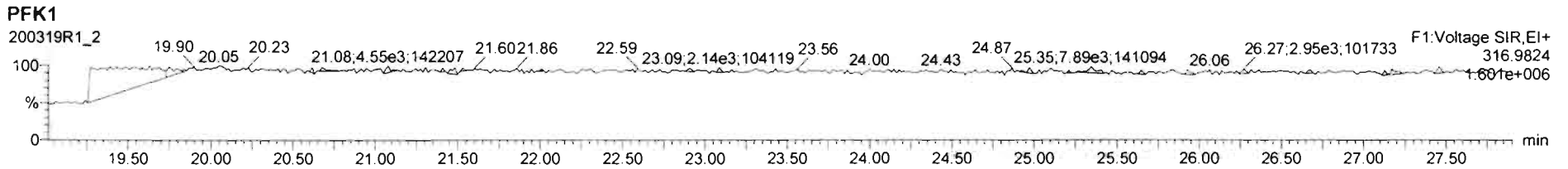


Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time

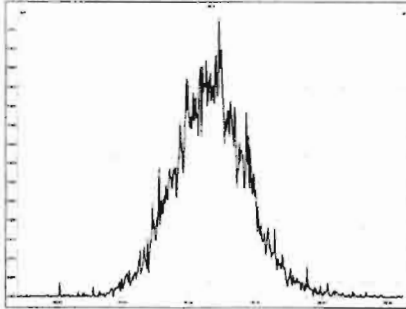
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

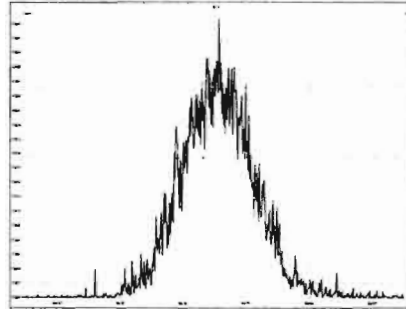


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

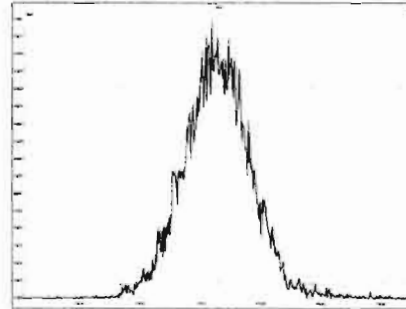
M 292.9824 R 11604



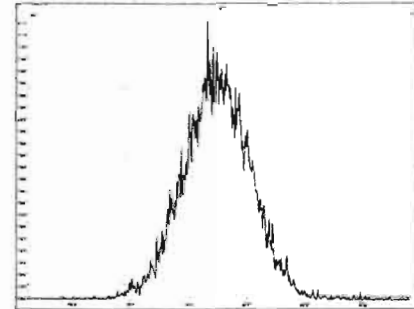
M 304.9824 R 13091



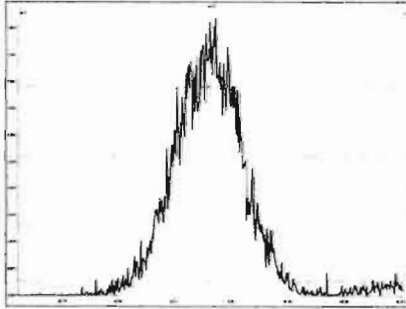
M 318.9792 R 12691



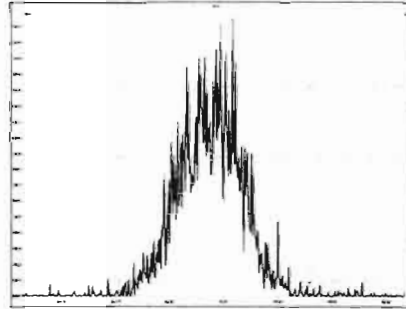
M 330.9792 R 12726



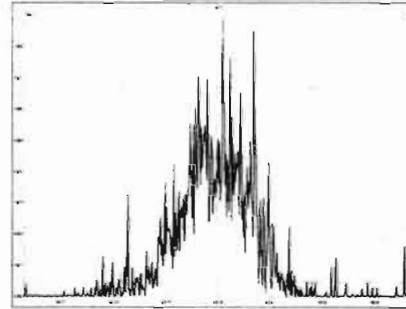
M 342.9792 R 13065



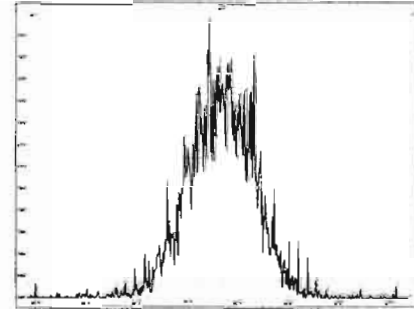
M 354.9792 R 14295



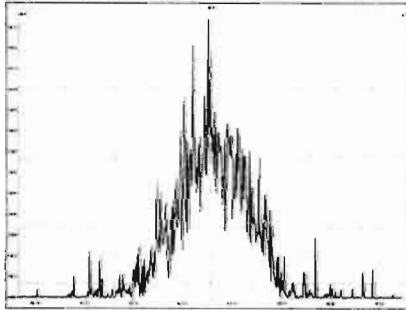
M 366.9792 R 17576



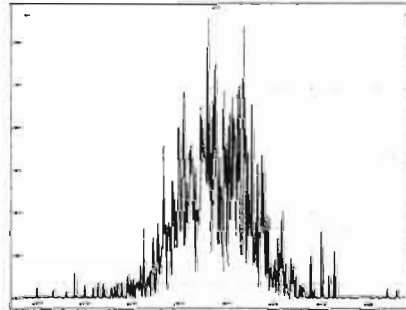
M 380.9760 R 15112



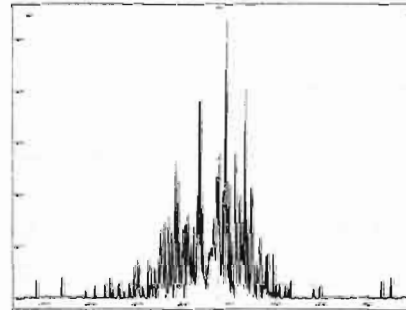
M 392.9760 R 13909



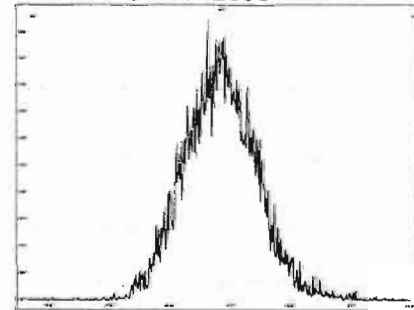
M 404.9760 R 16541



M 416.9760 R 27851

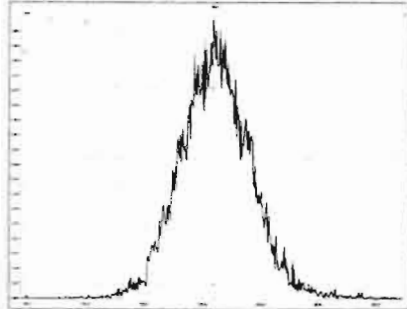


M 318.9792 R 12698

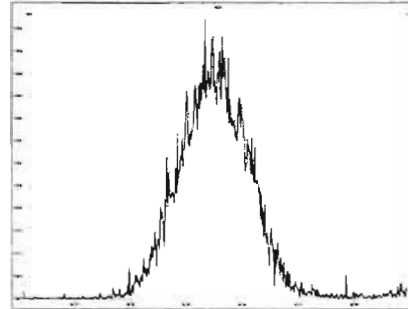


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

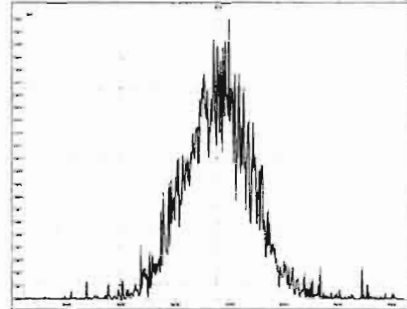
M 330.9792 R 13199



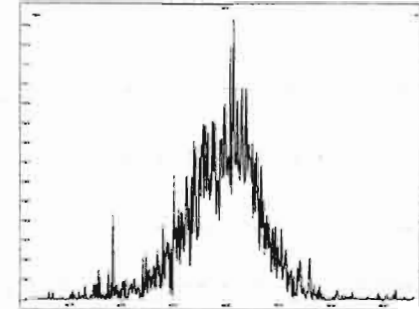
M 342.9792 R 12594



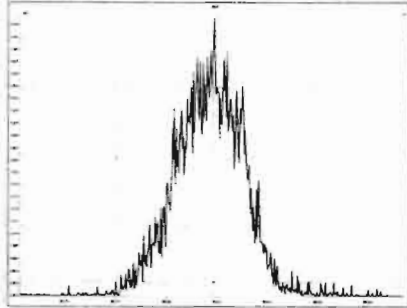
M 354.9792 R 14837



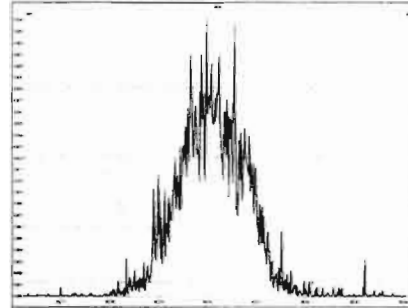
M 366.9792 R 15874



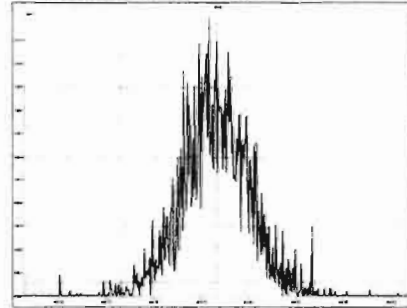
M 380.9760 R 14006



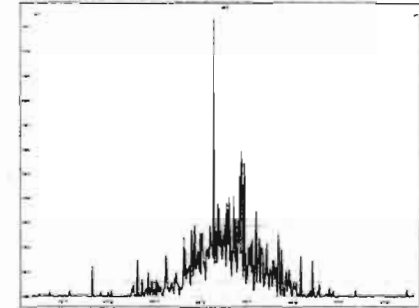
M 392.9760 R 14108



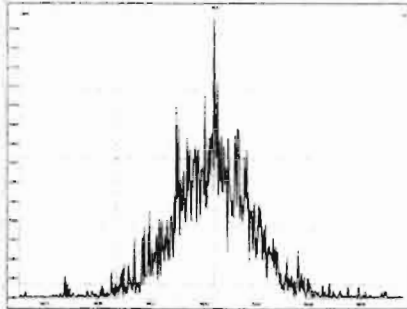
M 404.9760 R 15201



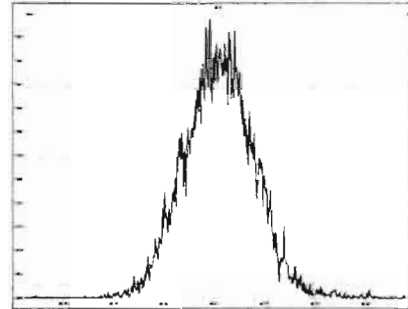
M 416.9760 R 19535



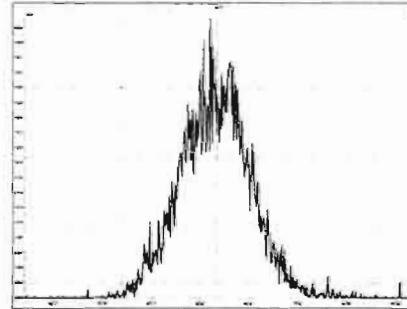
M 366.9792 R 13626



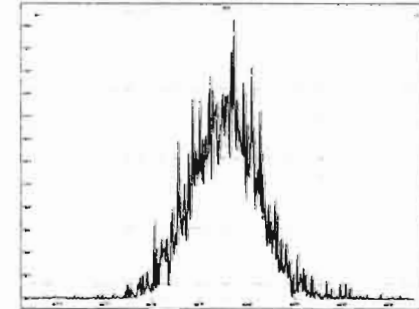
M 380.9760 R 12828



M 392.9760 R 12724

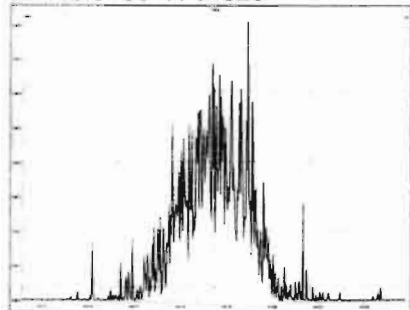


M 404.9760 R 14374

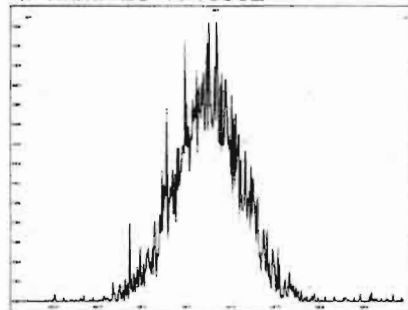


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

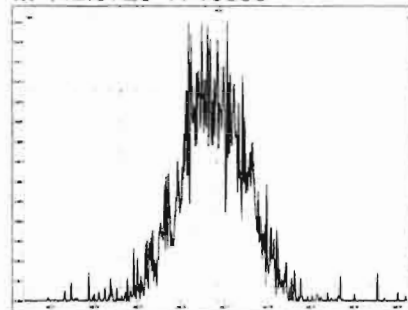
M 416.9760 R 14029



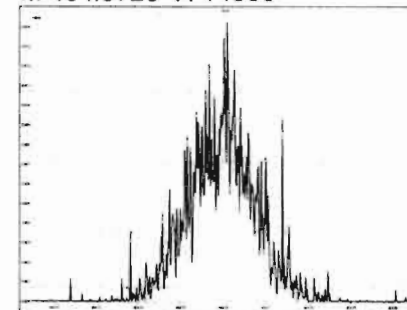
M 430.9728 R 13532



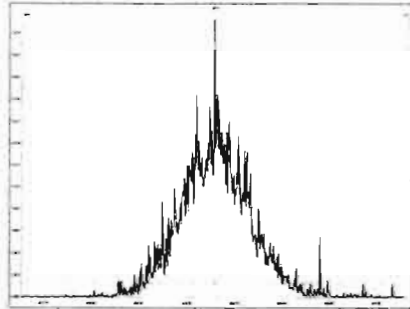
M 442.9728 R 15030



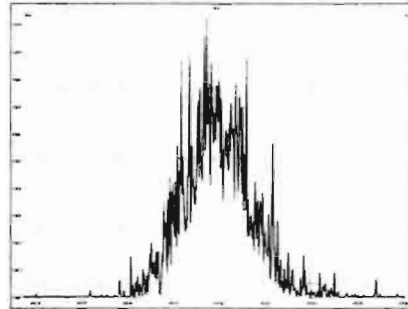
M 454.9728 R 14660



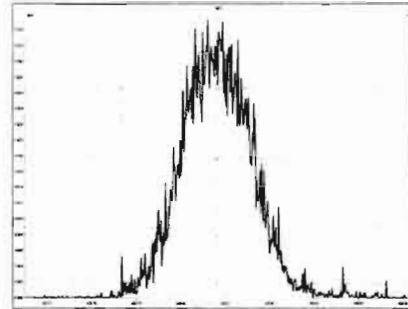
M 404.9760 R 12817



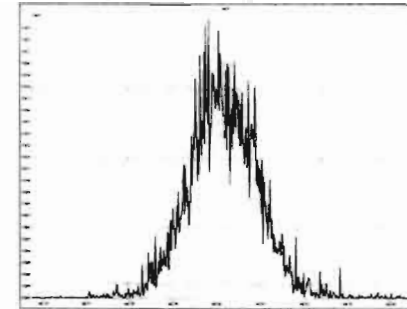
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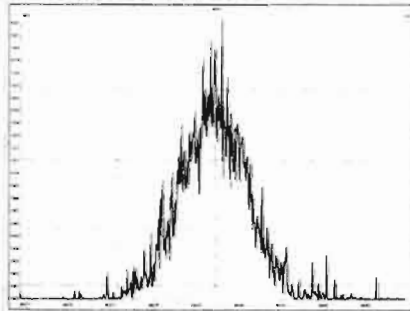
M 430.9728 R 13450



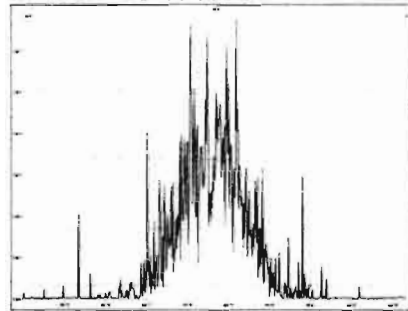
M 442.9728 R 13892



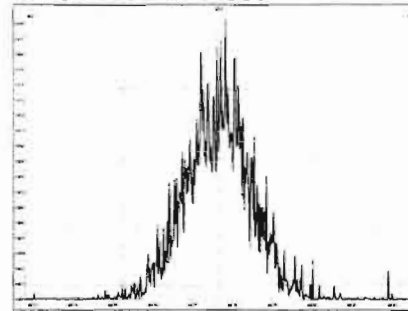
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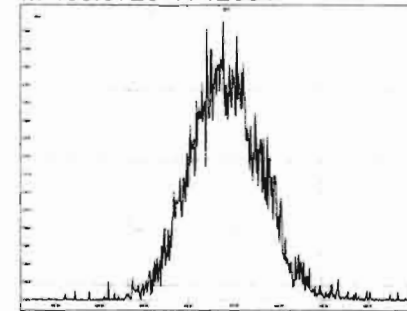
M 466.9728 R 16021



M 480.9696 R 14665

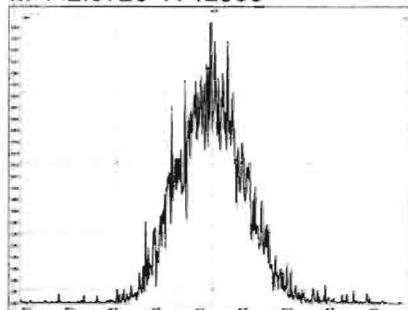


M 430.9728 R 12991

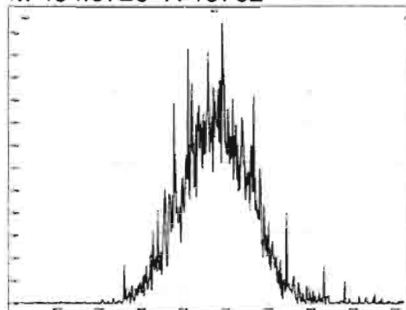


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

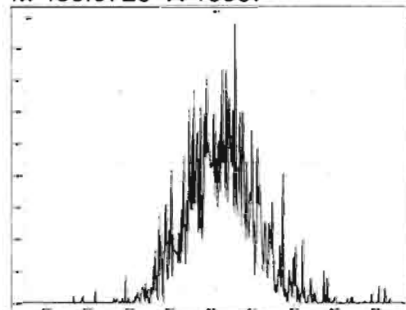
M 442.9728 R 12953



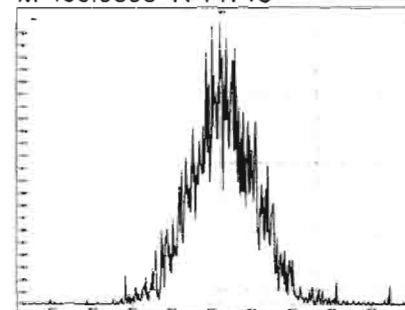
M 454.9728 R 13782



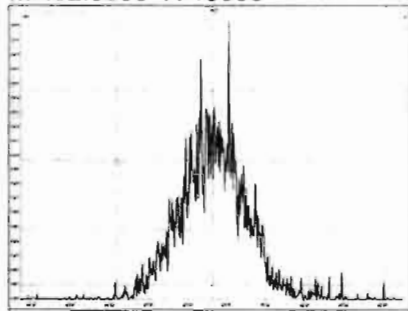
M 466.9728 R 15987



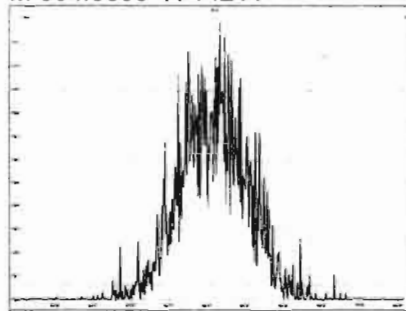
M 480.9696 R 14718



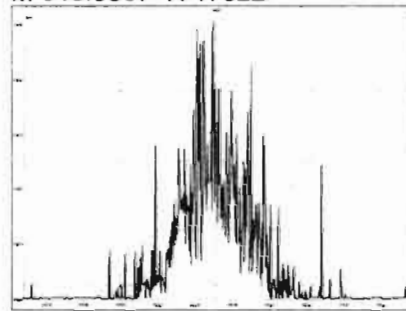
M 492.9696 R 13566



M 504.9696 R 14211



M 516.9697 R 17022



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200324D1-1

Reviewed By: 0703/25/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>DB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>DB</u>	<input type="checkbox"/>

Mass resolution ≥

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly? NA

GC Break <20% NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours NA

Comments:

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 11:19:07 Pacific Daylight Time

DB 3/24/20

0703/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	6.64e3	0.81	NO	0.982	1.000	17.794	17.79	1.000	1.001	8.7672	87.7 84 -120	0.175	8.77
2	2 13C-2,3,7,8-TCDF	7.71e4	0.77	NO	1.08	1.000	17.782	17.77	1.133	1.138	100.47	100 71 -140	0.609	
3	3 13C-1,2,3,4-TCDF	7.09e4	0.80	NO	1.00	1.000	15.660	15.62	1.000	1.000	100.00	100	0.659	

Dataset: Untitled

Last Altered: Wednesday, March 25, 2020 09:26:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 09:26:37 Pacific Daylight Time

Method: C:\MassLynx\Default.PROMethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

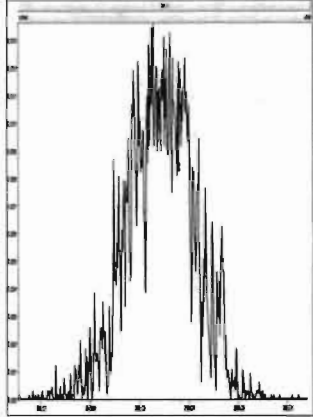
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200324D1_1	CP200324D1-1 DB-225 CPSM	24-Mar-20	10:24:42
2	200324D1_2	ST200324D1-1 1613 CS3 19L2305	24-Mar-20	10:54:51
3	200324D1_3	SOLVENT BLANK	24-Mar-20	11:26:29
4	200324D1_4	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	24-Mar-20	11:58:14
5	200324D1_5	2000143-04RE1 PDI-031SC-A-03-04-191017 ...	24-Mar-20	12:29:54
6	200324D1_6	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:01:37
7	200324D1_7	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:33:23
8	200324D1_8	1903654-05RE4 PDI-075SC-B-00-02-191013 ...	24-Mar-20	14:05:06
9	200324D1_9	1903654-08RE4 PDI-075SC-B-06-08-191013 ...	24-Mar-20	14:36:46
10	200324D1_10	1903654-11RE4 PDI-076SC-B-05-07-191013 ...	24-Mar-20	15:08:29
11	200324D1_11	1903827-05RE4 PDI-062SC-B-00-02-191023 ...	24-Mar-20	15:40:10
12	200324D1_12	1904161-16RE6 PDI-066SC-A-06-07-191011 ...	24-Mar-20	16:11:48
13	200324D1_13	2000195-05RE1 PDI-074SC-A-06-07-191012 ...	24-Mar-20	16:43:30
14	200324D1_14	2000195-07RE1 PDI-076SC-A-08-09-191013 ...	24-Mar-20	17:15:12
15	200324D1_15	2000195-08RE1 PDI-076SC-A-09-10-191013 ...	24-Mar-20	17:46:53
16	200324D1_16	2000195-09RE1 PDI-100SC-J-04-05-190926 ...	24-Mar-20	18:18:36

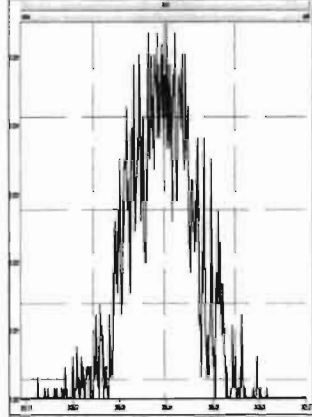
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 24, 2020 10:23:51 Pacific Daylight Time

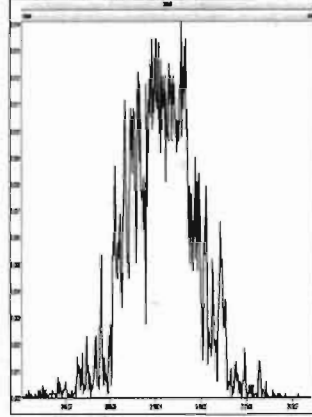
M 292.9824 R 13509



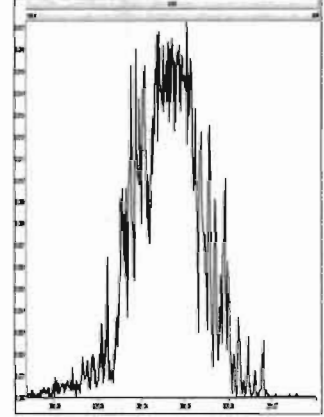
M 304.9824 R 13441



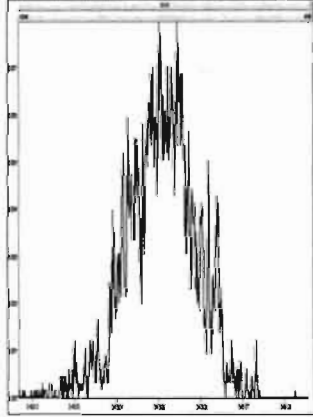
M 318.9792 R 13811



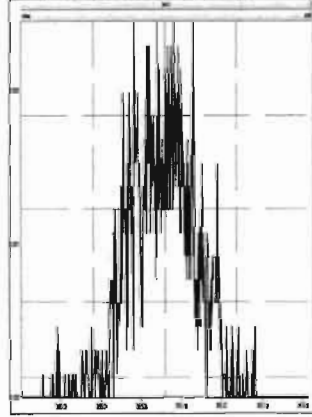
M 330.9792 R 12138



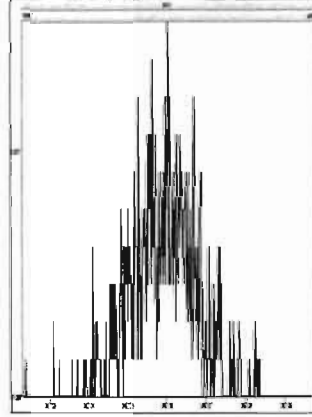
M 342.9792 R 11905



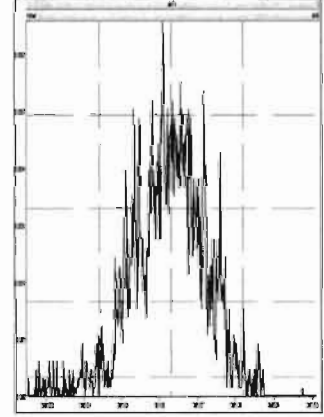
M 354.9792 R 11847

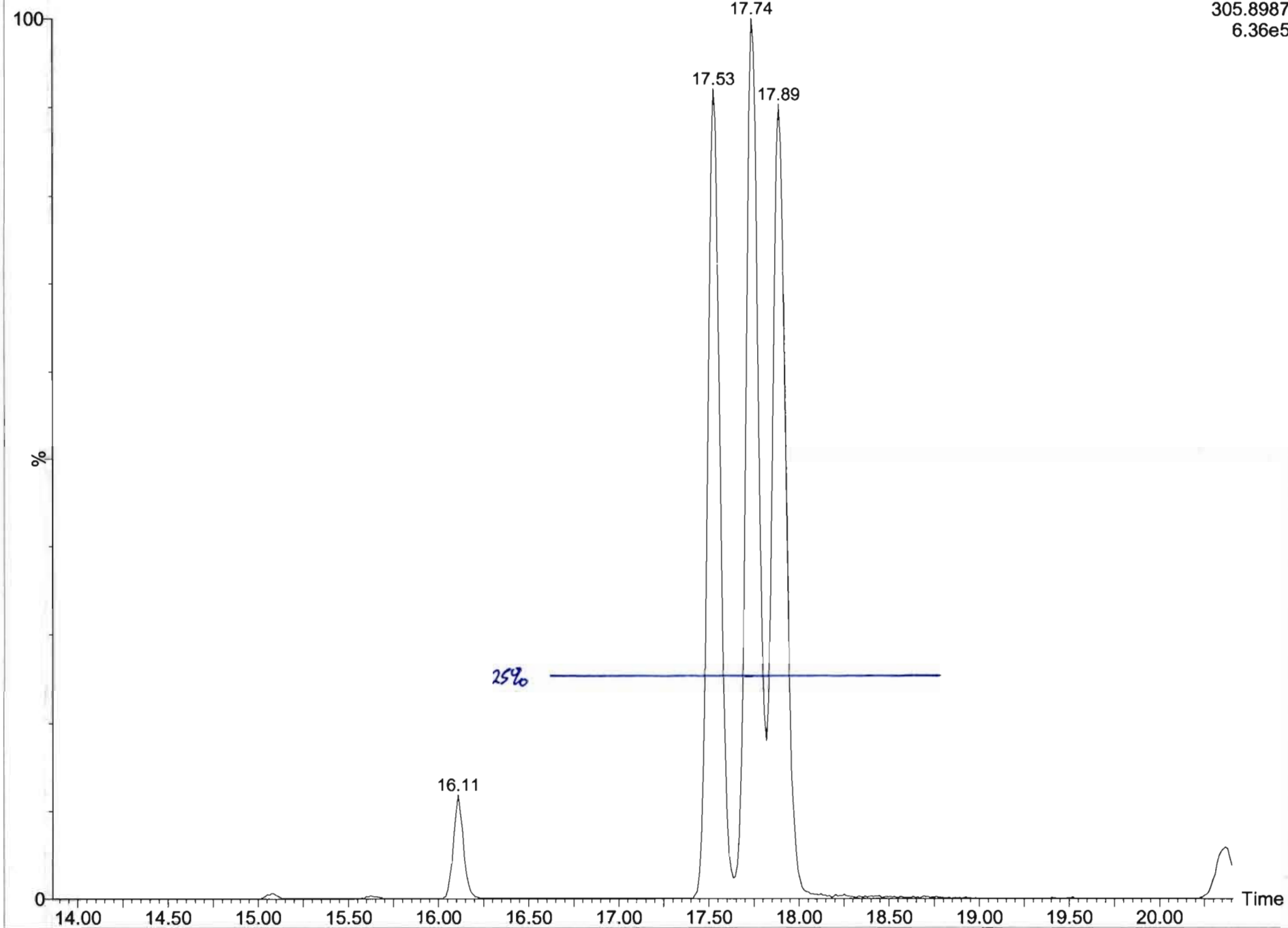


M 366.9792 R 15247



M 380.9760 R 12015





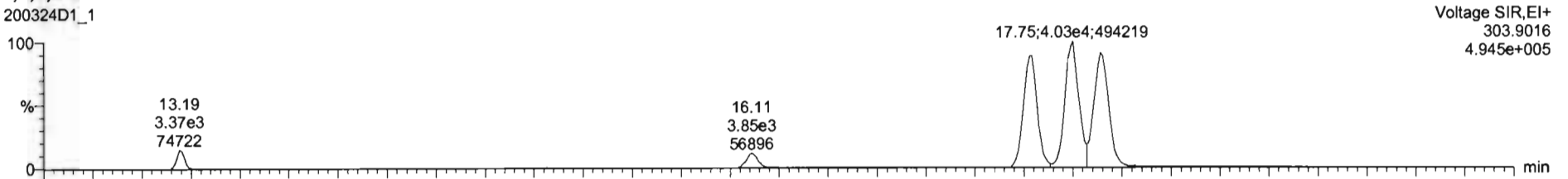
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

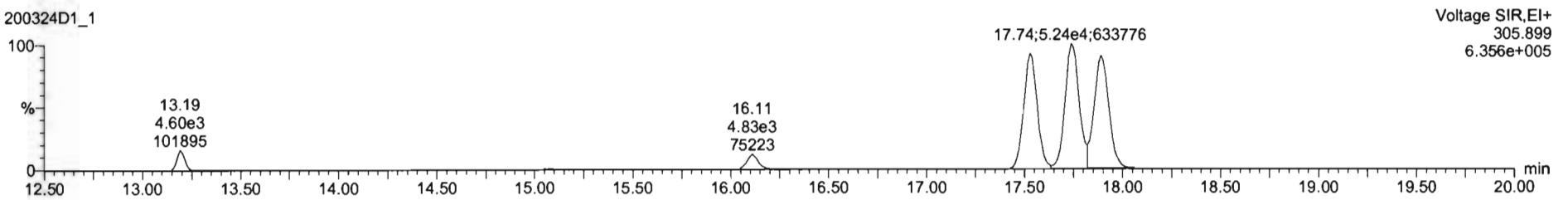
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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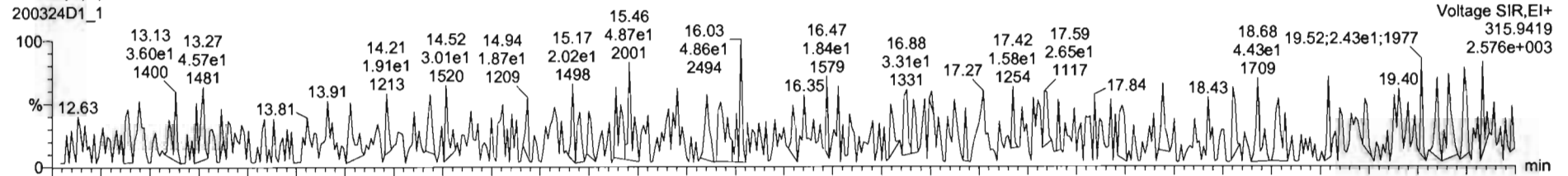
2,3,7,8-TCDF
200324D1_1



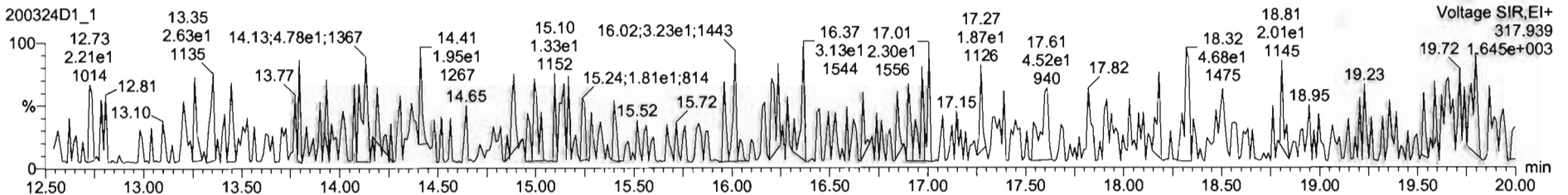
200324D1_1



13C-2,3,7,8-TCDF



200324D1_1



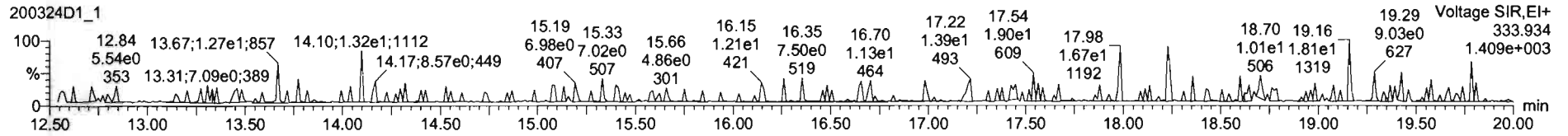
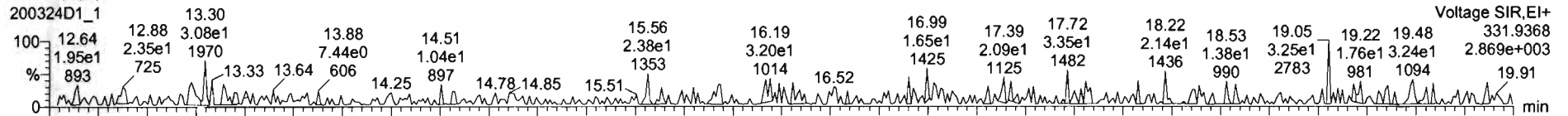
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Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time

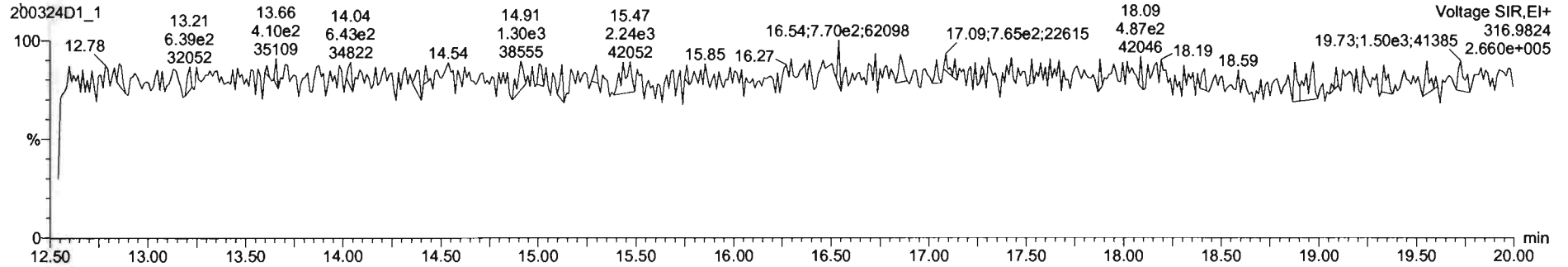
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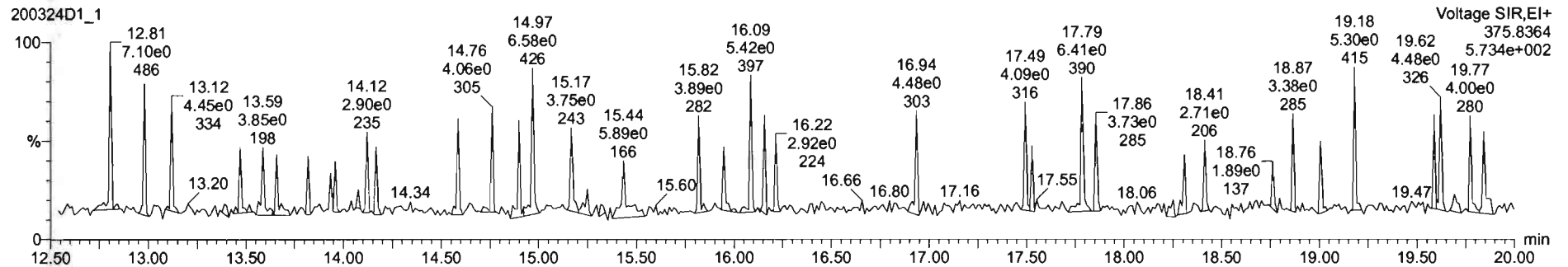
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

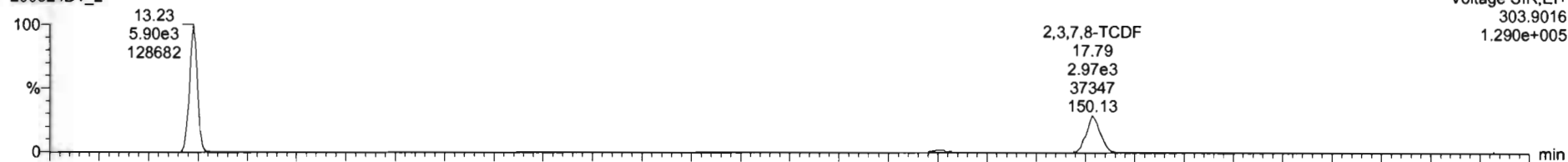
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Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

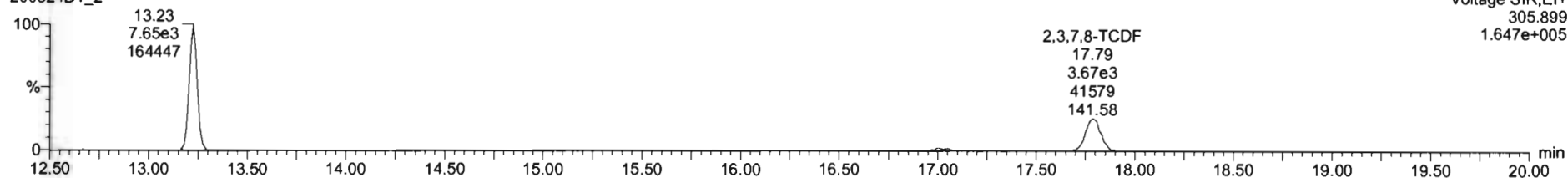
2,3,7,8-TCDF

200324D1_2



Voltage SIR,EI+
303.9016
1.290e+005

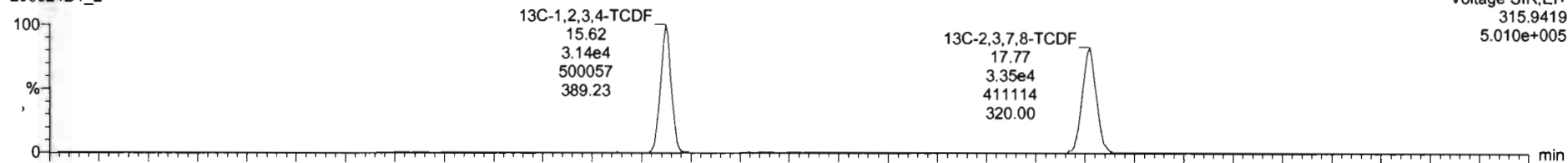
200324D1_2



Voltage SIR,EI+
305.899
1.647e+005

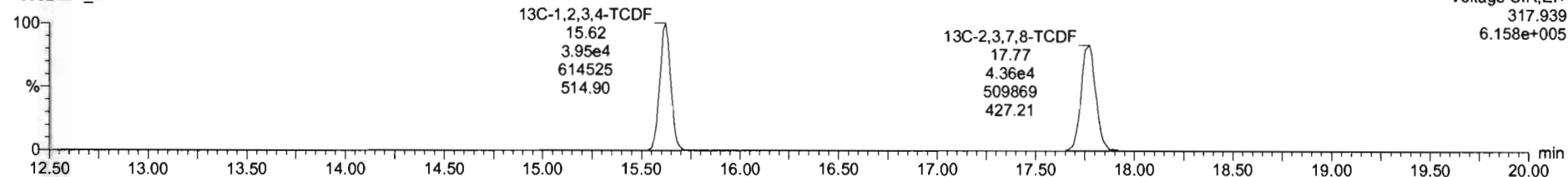
13C-2,3,7,8-TCDF

200324D1_2



Voltage SIR,EI+
315.9419
5.010e+005

200324D1_2



Voltage SIR,EI+
317.939
6.158e+005

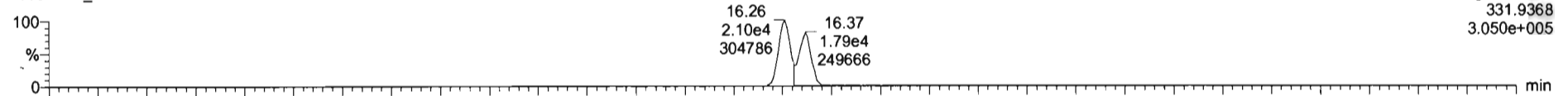
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Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

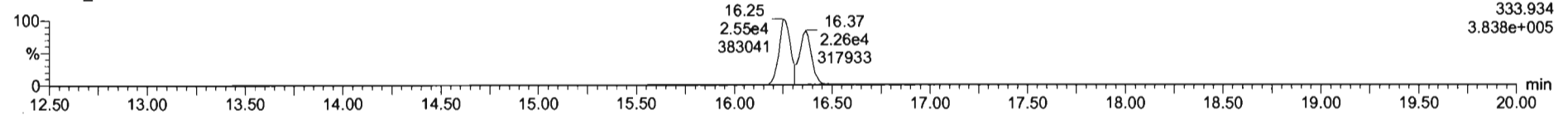
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13C-1,2,3,4-TCDD

200324D1_2

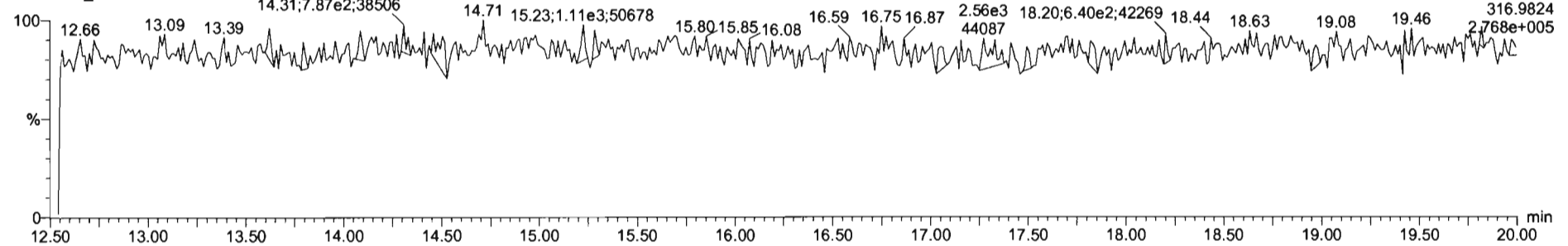


200324D1_2



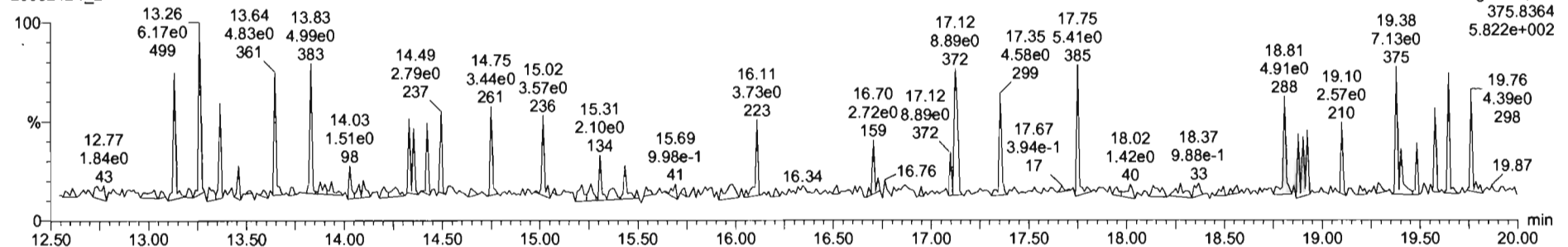
PFK1

200324D1_2



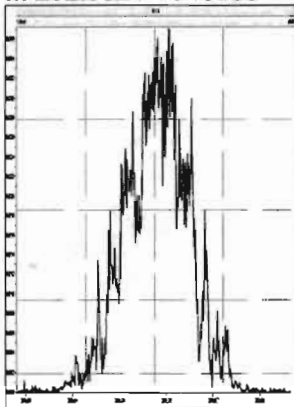
DPE1

200324D1_2

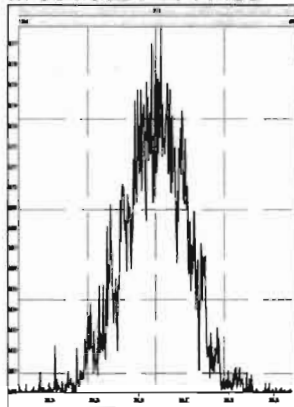


Printed: Tuesday, March 24, 2020 18:52:07 Pacific Daylight Time

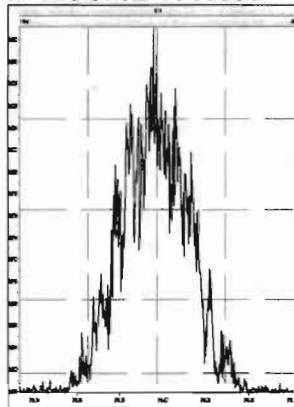
M 292.9824 R 10838



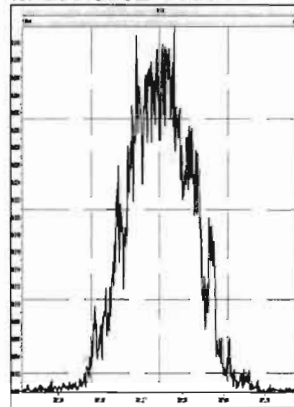
M 304.9824 R 11485



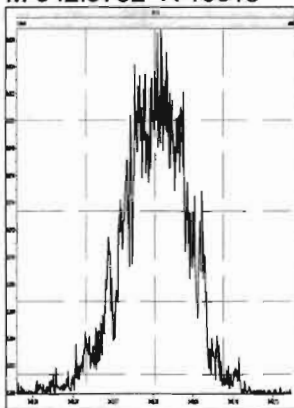
M 318.9792 R 10595



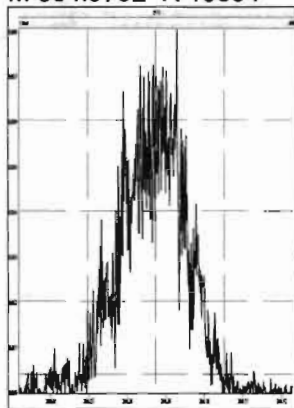
M 330.9792 R 9777



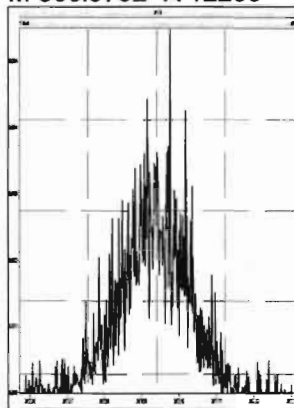
M 342.9792 R 10518



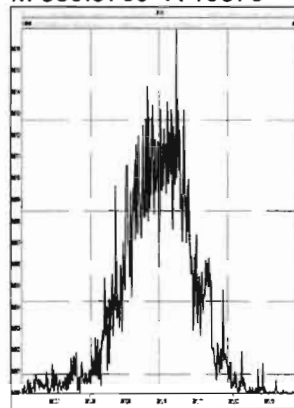
M 354.9792 R 10894



M 366.9792 R 12233



M 380.9760 R 10376



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/02/2020

C: 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

Response Factor: 0.988069

RRF SD: 0.0483829, Relative SD: 4.89671

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250	0.83	NO	25.74	1.001	2.87e3	1.21e6	0.239	-4.3	0.945	bb
2	200131R1_2	0.500	0.77	NO	25.69	1.001	7.22e3	1.37e6	0.532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2.11	5.7	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1.42e6	9.92	-0.8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1.001	5.51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.972284

RRF SD: 0.054098, Relative SD: 5.56402

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.07079

RRF SD: 0.0439702, Relative SD: 4.10634

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2.47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1.23	NO	33.98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50.0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33.99	1.000	2.05e7	1.30e6	1470	-1.8	1.05	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.921124

RRF SD: 0.0705821, Relative SD: 7.66261

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.9182

RRF SD: 0.0596016, Relative SD: 6.49114

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-5.3	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1.001	2.05e6	1.15e6	195	-2.7	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.923064
 RRF SD: 0.0512135, Relative SD: 5.54821
 Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.04	NO	37.92	1.000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37.88	1.000	1.88e4	7.60e5	2.69	7.4	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1.001	7.44e4	7.62e5	10.6	5.8	0.976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1.000	3.45e5	7.83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD

Response Factor: 0.974578
 RRF SD: 0.0610366, Relative SD: 6.26287
 Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bd
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76e5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 2,3,7,8-TCDF

Response Factor: 0.801975

RRF SD: 0.0524877, Relative SD: 6.54481

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250	0.73	NO	24.85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2.00	0.71	NO	24.82	1.001	3.25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1.001	1.47e5	1.92e6	9.50	-5.0	0.762	bb
5	200131R1_5	40.0	0.74	NO	24.81	1.001	5.87e5	1.96e6	37.3	-6.7	0.748	bb
6	200131R1_6	300	0.74	NO	24.82	1.001	5.37e6	2.35e6	285	-4.9	0.763	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.907368

RRF SD: 0.0556686, Relative SD: 6.13518

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.54	NO	29.39	1.000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82e5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.951581

RRF SD: 0.0710528, Relative SD: 7.46682

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.862294

RRF SD: 0.0432122, Relative SD: 5.0113

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.16	NO	33.13	1.000	1.04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2.37e4	1.03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1.14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1.000	4.53e5	1.09e6	48.4	-3.3	0.834	dd
5	200131R1_5	200	1.16	NO	33.10	1.001	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.841382

RRF SD: 0.0466581, Relative SD: 5.54541

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	db
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.898194

RRF SD: 0.0533025, Relative SD: 5.9344

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1.06e6	2.67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1.14e5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48.4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1.27e6	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33.82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.857779

RRF SD: 0.0530165, Relative SD: 6.18067

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1.17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1.16	NO	34.70	1.000	1.74e6	1.06e6	191	-4.6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.851072

RRF SD: 0.0458765, Relative SD: 5.39044

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79e4	7.82e5	2.70	7.9	0.918	bd

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bd
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0.818	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 0.979894
 RRF SD: 0.0488516, Relative SD: 4.9854
 Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1.19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38.48	1.000	1.47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1.04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38.48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38.50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF

Response Factor: 0.805548
 RRF SD: 0.0471476, Relative SD: 5.85286
 Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.19852

RRF SD: 0.0939444, Relative SD: 7.83835

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1.42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1.026	1.45e6	1.18e6	103	2.7	1.23	bb
6	200131R1_6	100	0.78	NO	25.69	1.026	1.75e6	1.37e6	107	6.9	1.28	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.966657

RRF SD: 0.113301, Relative SD: 11.7209

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	bd

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1.05e6	98.8	-1.2	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1.04e6	1.15e6	104	3.8	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 1.04579
 RRF SD: 0.10317, Relative SD: 9.86527
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.24	NO	34.09	1.017	9.31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1.05e6	1.13e6	88.6	-11.4	0.927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1.23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1.25	NO	34.07	1.017	1.11e6	1.05e6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	3.3	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.974375
 RRF SD: 0.10254, Relative SD: 10.5236
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

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Compound name: 13C-1,2,3,4,6,7,8-HpCDD

Response Factor: 0.747228

RRF SD: 0.0868418, Relative SD: 11.6219

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.04	NO	37.91	1.131	7.05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1.03	NO	37.88	1.131	7.60e5	1.13e6	90.0	-10.0	0.673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7.62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1.05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1.03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0.834	bb

Compound name: 13C-OCDD

Response Factor: 0.706533

RRF SD: 0.0850665, Relative SD: 12.04

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	8.9	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1.46e6	1.13e6	183	-8.6	0.646	bd
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.06529

RRF SD: 0.0915828, Relative SD: 8.59701

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 1.00172

RRF SD: 0.117905, Relative SD: 11.7703

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1.66e6	1.95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0.914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1.80e6	95.2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1.96e6	1.80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.961692

RRF SD: 0.117094, Relative SD: 12.1758

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.0492

RRF SD: 0.111678, Relative SD: 10.6441

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.13	0.988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1.03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0.988	1.14e6	1.23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0.50	NO	33.11	0.988	1.09e6	1.05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1.15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1.55e6	1.32e6	112	12.1	1.18	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.18988

RRF SD: 0.120357, Relative SD: 10.1151

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.06623

RRF SD: 0.103589, Relative SD: 9.71549

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1.05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1.15e6	103	3.4	1.10	bb
6	200131R1_6	100	0.50	NO	33.81	1.009	1.59e6	1.32e6	113	12.6	1.20	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.922357

RRF SD: 0.112781, Relative SD: 12.2275

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1.036	9.11e5	1.13e6	87.5	-12.5	0.807	bb
3	200131R1_3	100	0.50	NO	34.70	1.036	9.71e5	1.23e6	85.9	-14.1	0.793	bb
4	200131R1_4	100	0.51	NO	34.71	1.036	9.57e5	1.05e6	98.7	-1.3	0.910	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

Compound name: 13C-1,2,3,4,6,7,8-HpCDF

Response Factor: 0.767165

RRF SD: 0.0861255, Relative SD: 11.2265

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.552323
 RRF SD: 0.0621028, Relative SD: 11.2439
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-9.7	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0.43	NO	38.47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

Compound name: 13C-OCDF

Response Factor: 0.78941
 RRF SD: 0.0937006, Relative SD: 11.8697
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1.227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17626
 RRF SD: 0.0677436, Relative SD: 5.75926
 Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1
 RRF SD: 0, Relative SD: 0
 Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1
 RRF SD: 0, Relative SD: 0
 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.52	1.000	8.41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0.51	NO	33.49	1.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0.51	NO	33.51	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
5	200131R1_5	100	0.51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001 ...	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101...	01-Feb-20	06:55:34

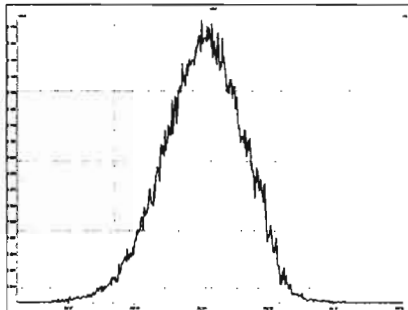
Experiment Calibration Report

MassLynx 4.1 SCN815

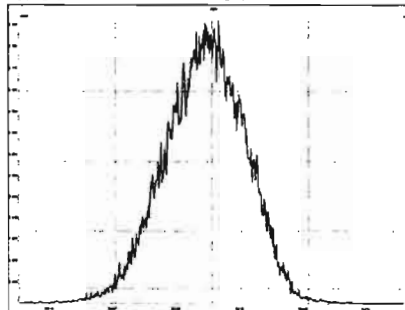
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Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

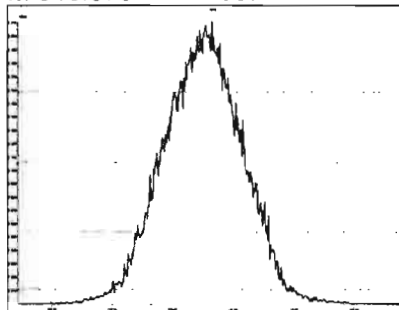
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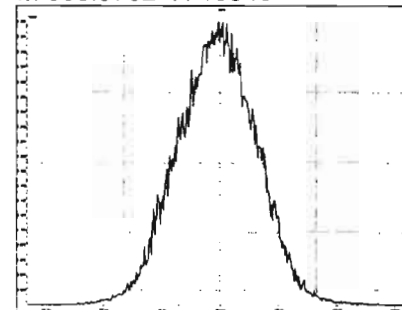
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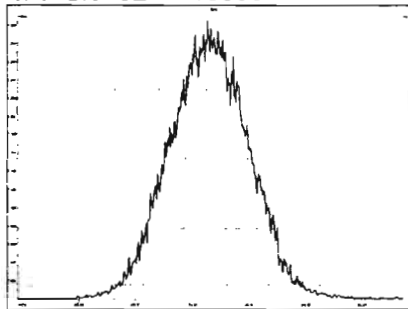
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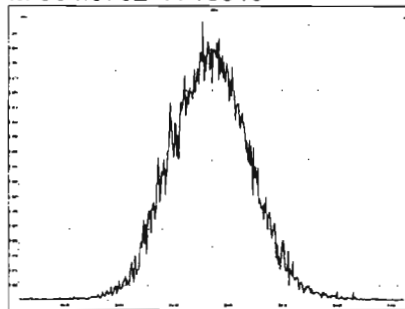
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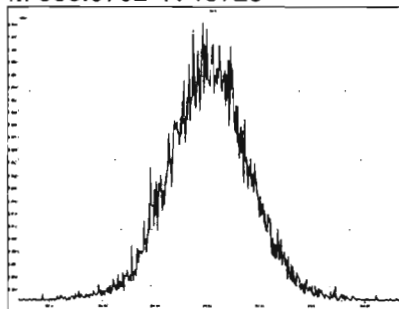
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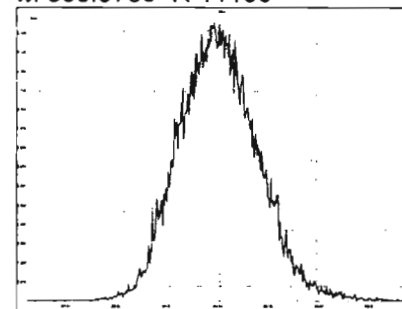
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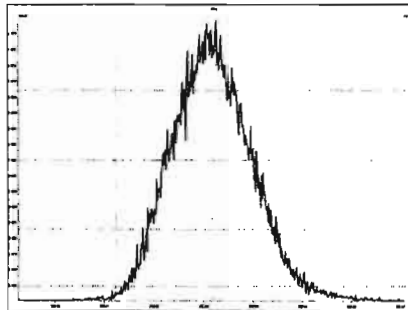
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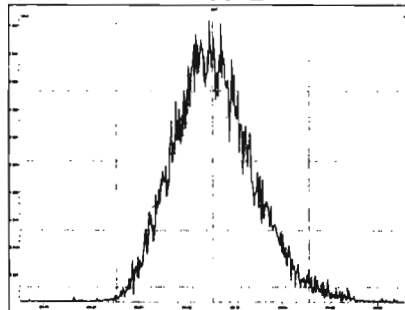
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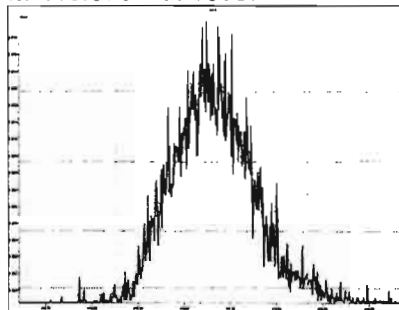
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M 416.9760 R 10507



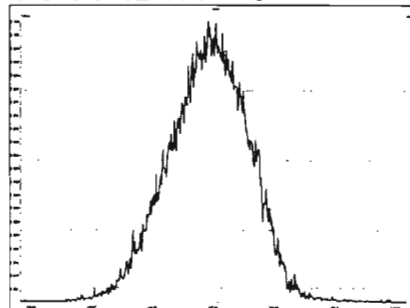
Experiment Calibration Report

MassLynx 4.1 SCN815

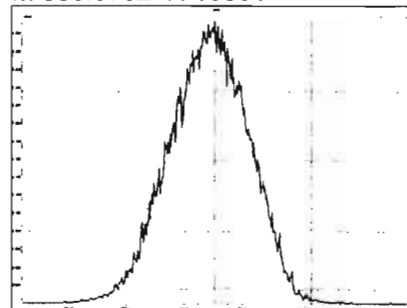
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Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

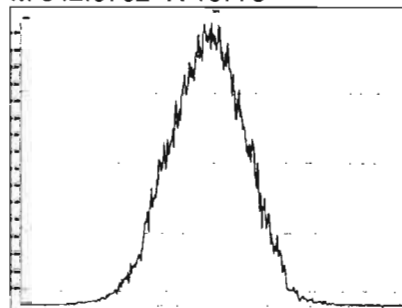
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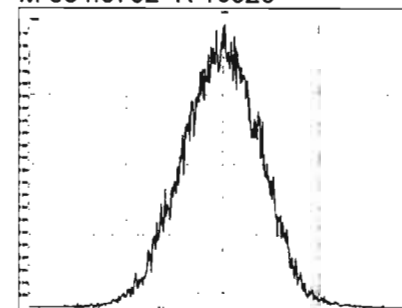
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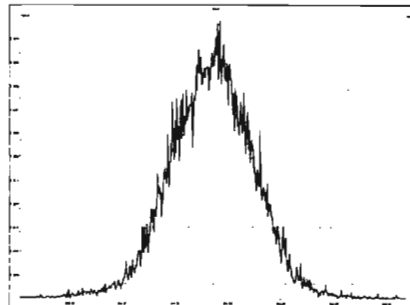
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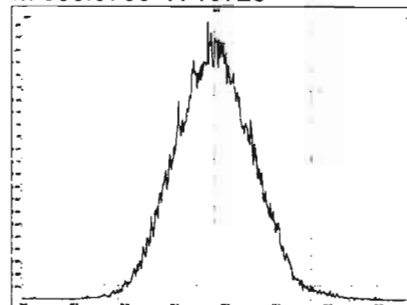
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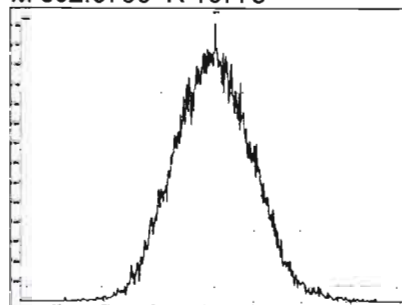
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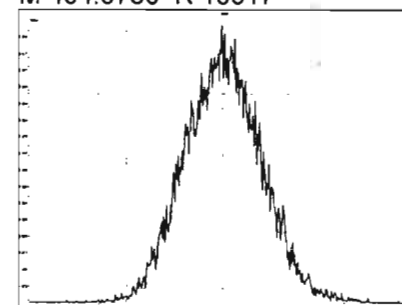
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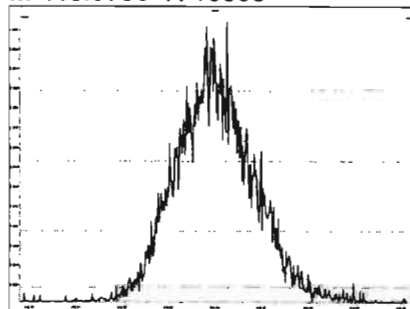
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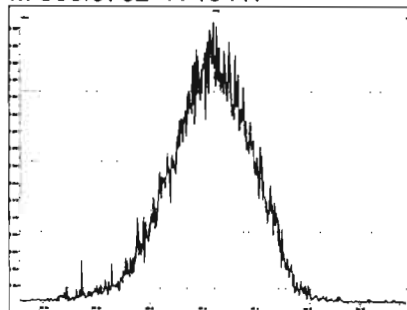
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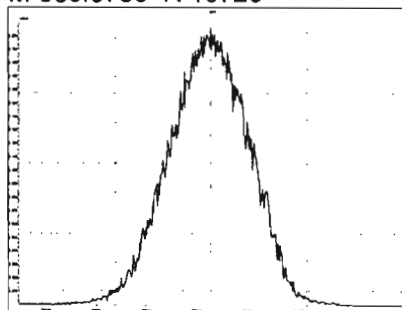
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Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

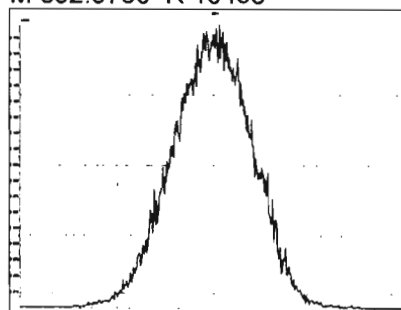
M 366.9792 R 10417



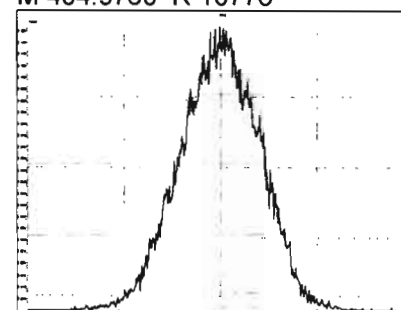
M 380.9760 R 10729



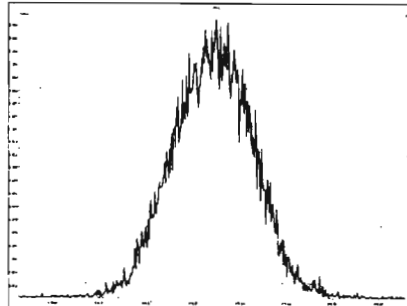
M 392.9760 R 10458



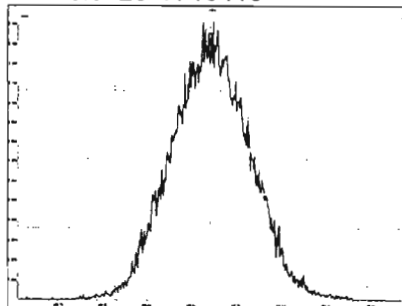
M 404.9760 R 10776



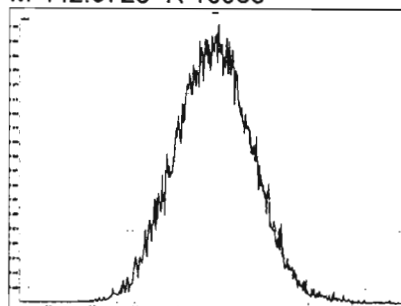
M 416.9760 R 10728



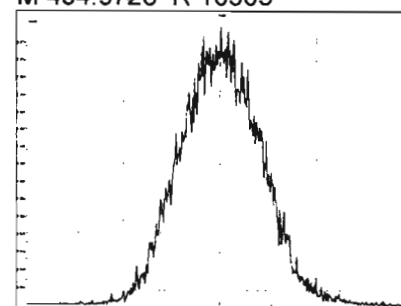
M 430.9728 R 10418



M 442.9728 R 10965



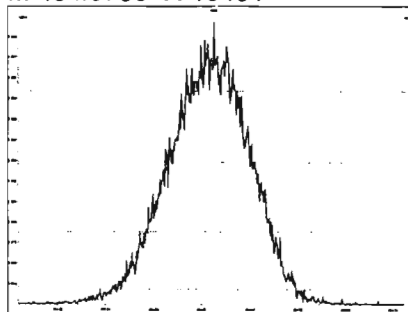
M 454.9728 R 10503



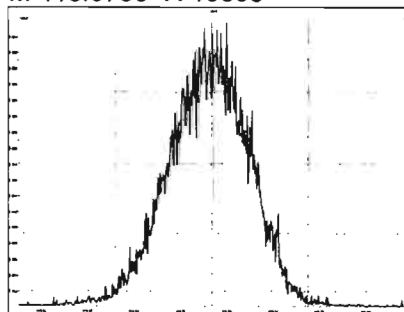
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

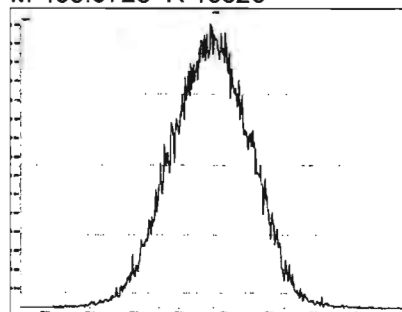
M 404.9760 R 10461



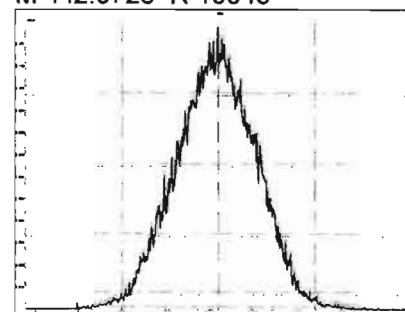
M 416.9760 R 10503



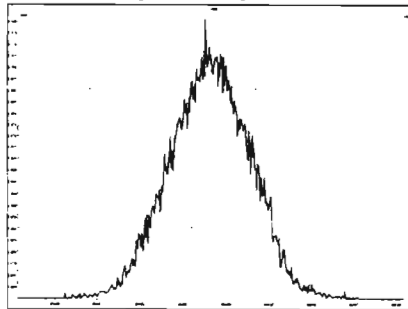
M 430.9728 R 10820



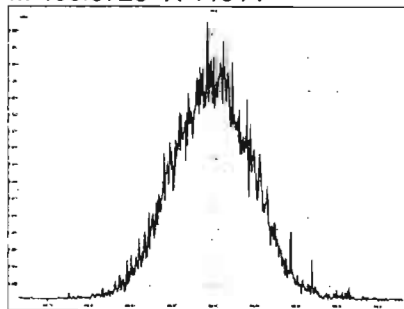
M 442.9728 R 10545



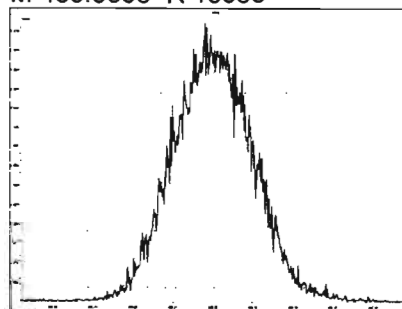
M 454.9728 R 10637



M 466.9728 R 11014



M 480.9696 R 10965



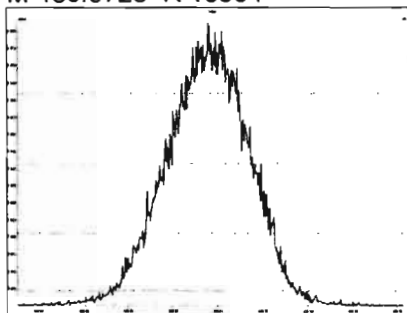
Experiment Calibration Report

MassLynx 4.1 SCN815

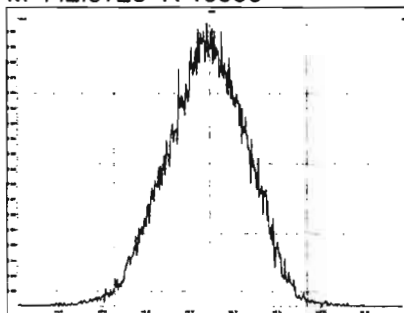
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time

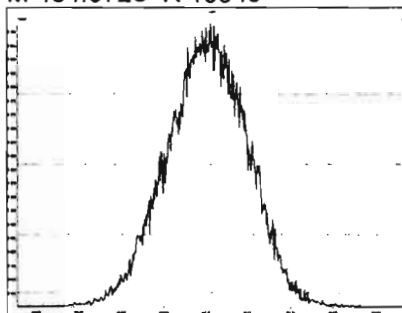
M 430.9728 R 10504



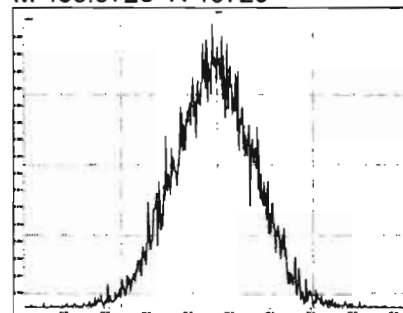
M 442.9728 R 10550



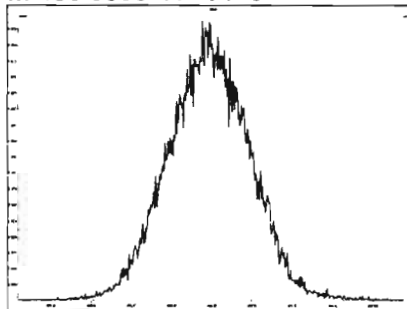
M 454.9728 R 10549



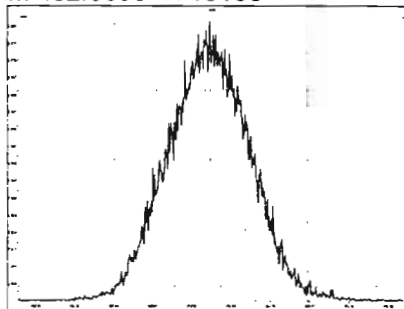
M 466.9728 R 10729



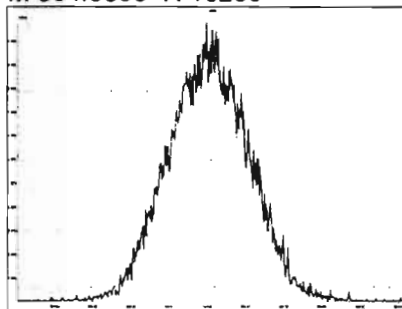
M 480.9696 R 10415



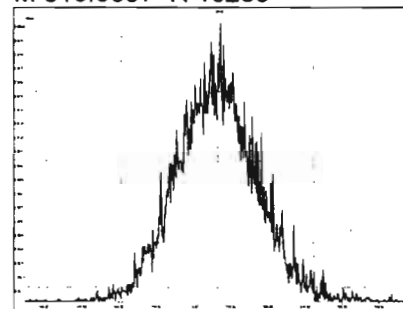
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

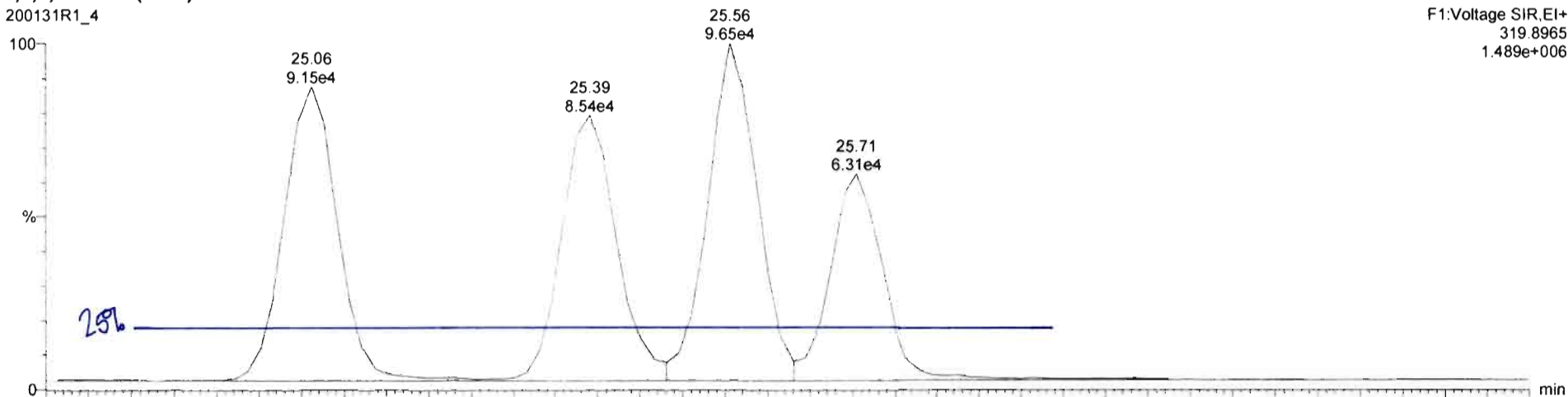
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

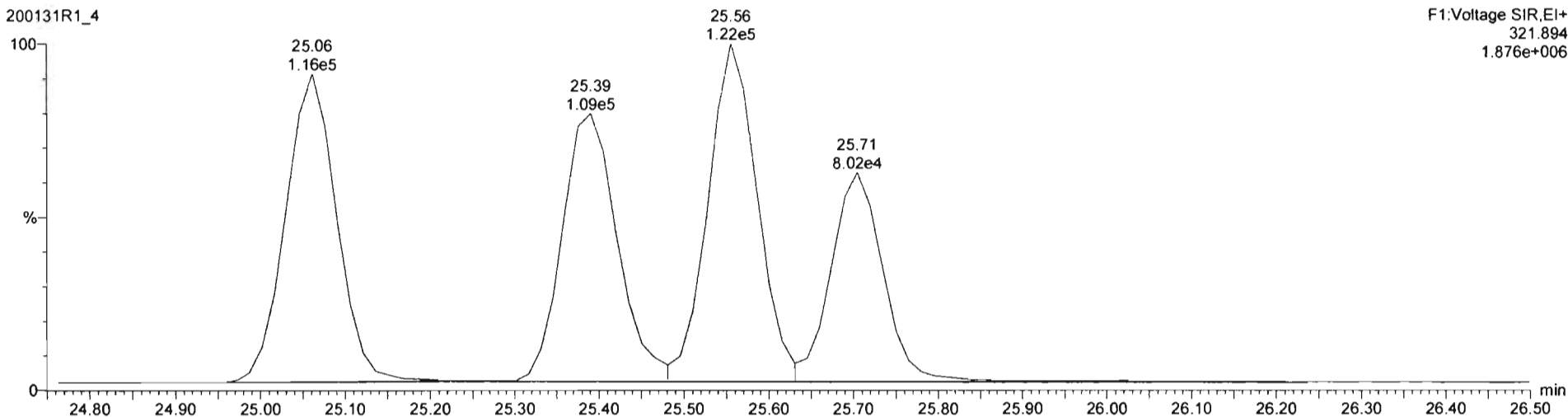
200131R1_4

F1:Voltage SIR,EI+
319.8965
1.489e+006



200131R1_4

F1:Voltage SIR,EI+
321.894
1.876e+006



Dataset: Untitled

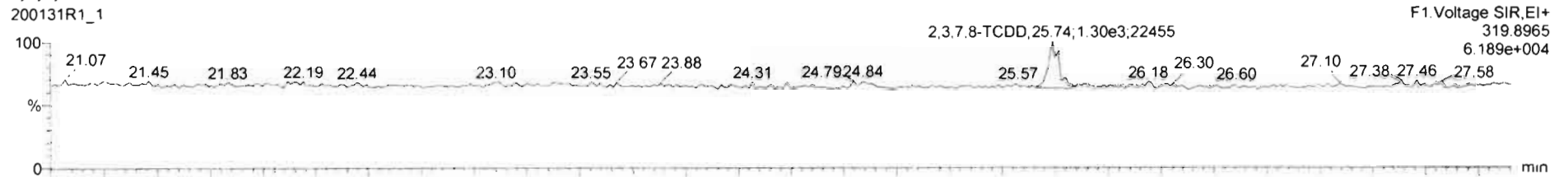
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: 02 Feb 2020 11:06:20

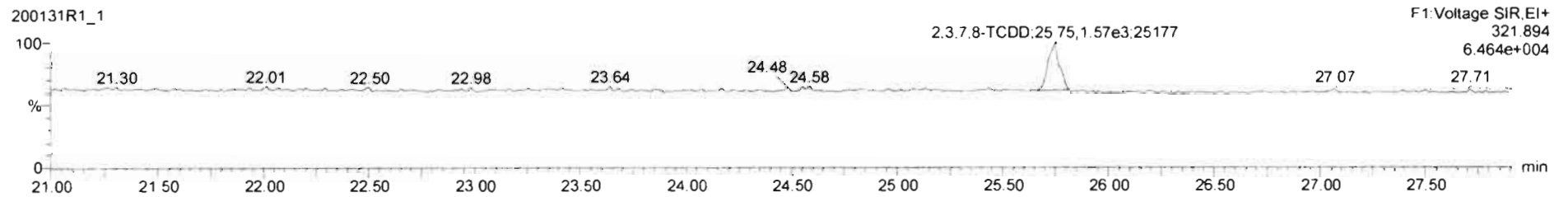
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200131R1_1

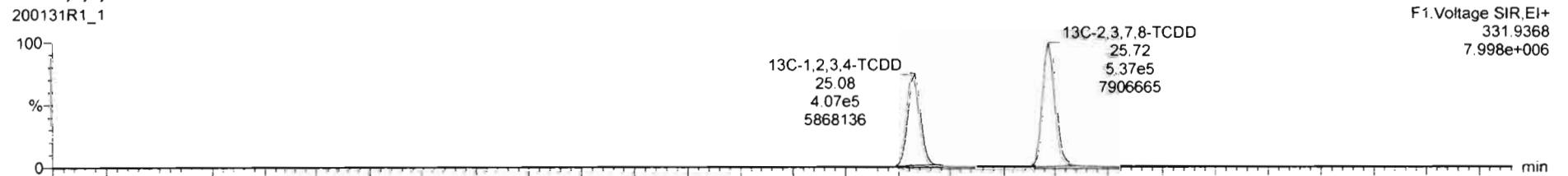


200131R1_1

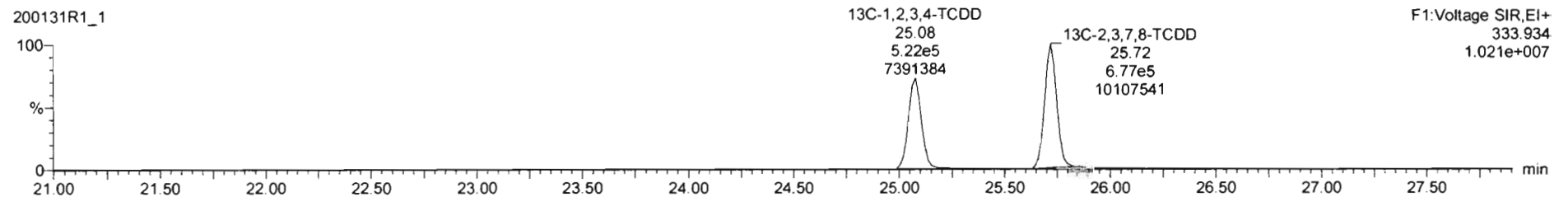


13C-2,3,7,8-TCDD

200131R1_1



200131R1_1



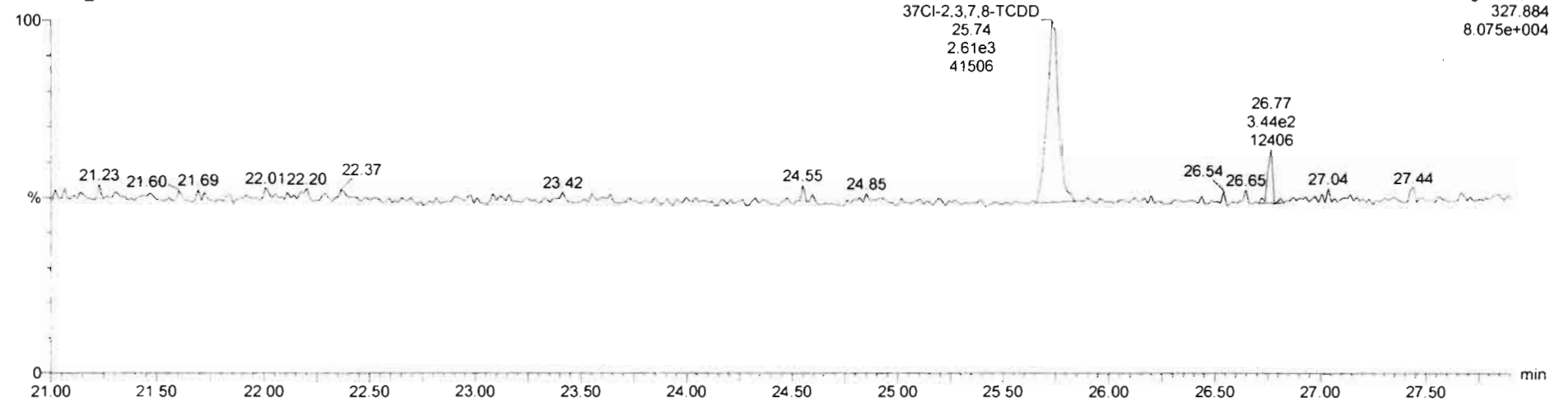
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

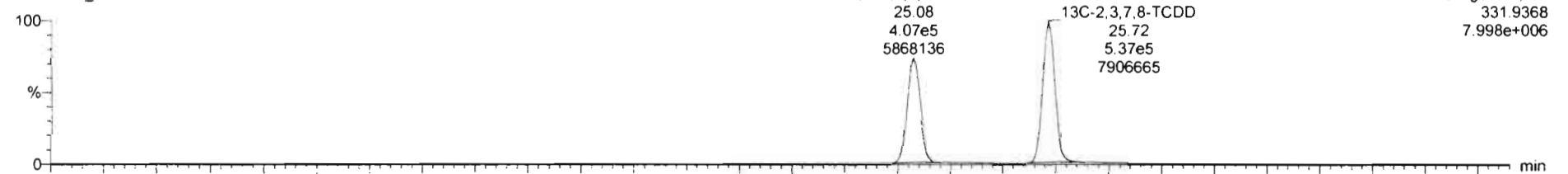
37Cl-2,3,7,8-TCDD

200131R1_1

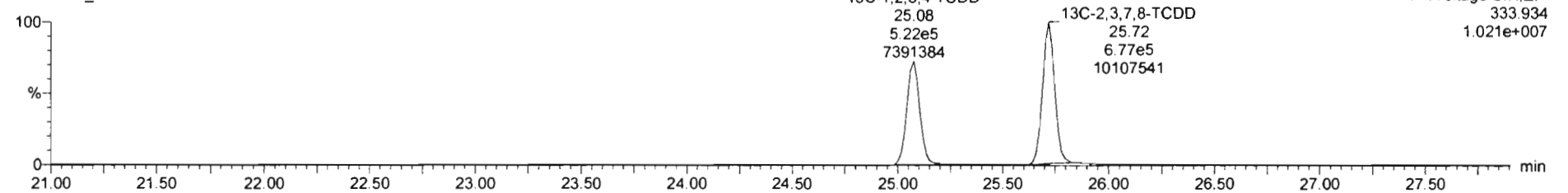


13C-1,2,3,4-TCDD

200131R1_1



200131R1_1



Dataset: Untitled

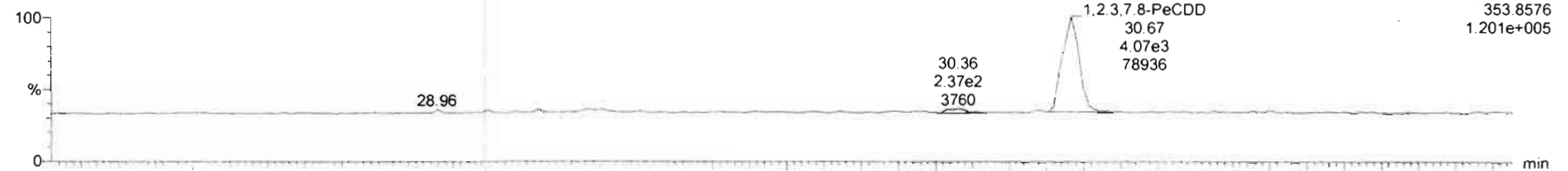
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

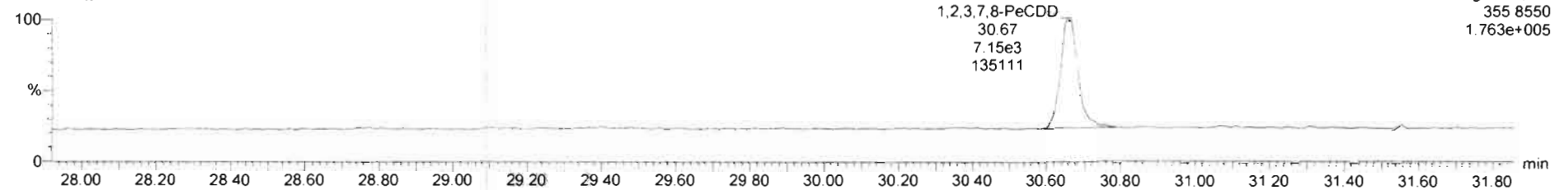
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200131R1_1

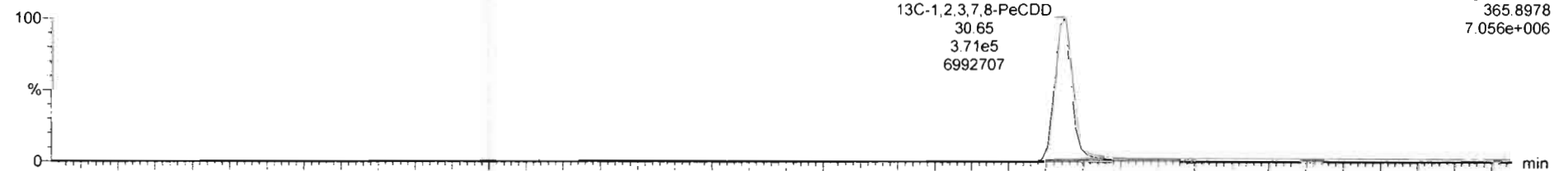


200131R1_1

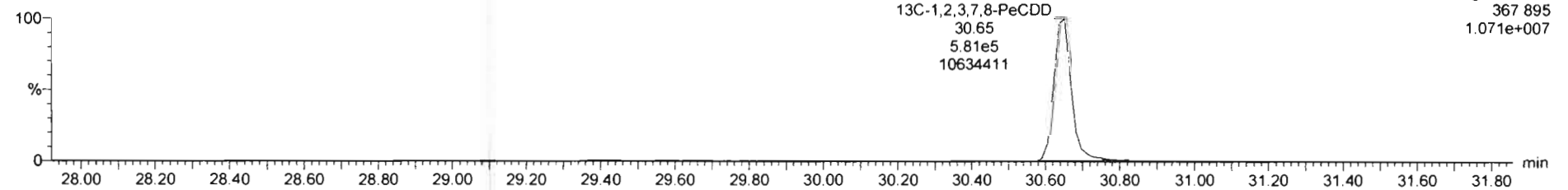


13C-1,2,3,7,8-PeCDD

200131R1_1



200131R1_1



Dataset: Untitled

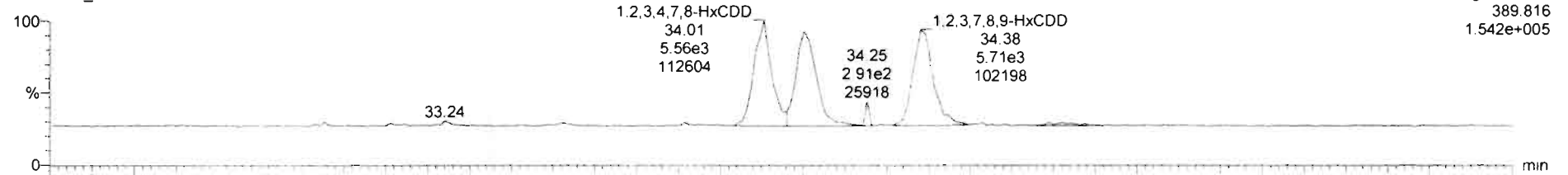
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

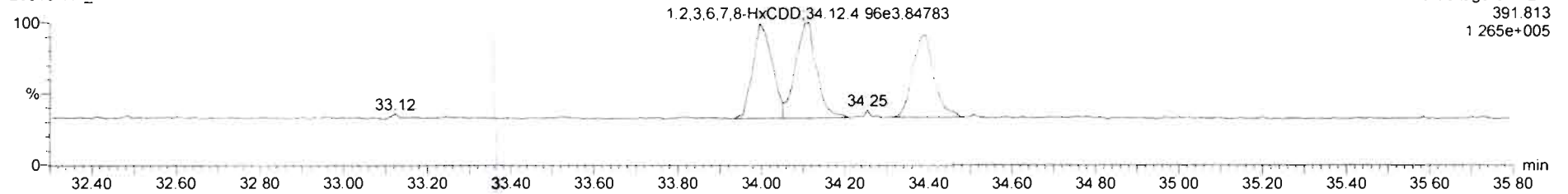
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,4,7,8-HxCDD

200131R1_1

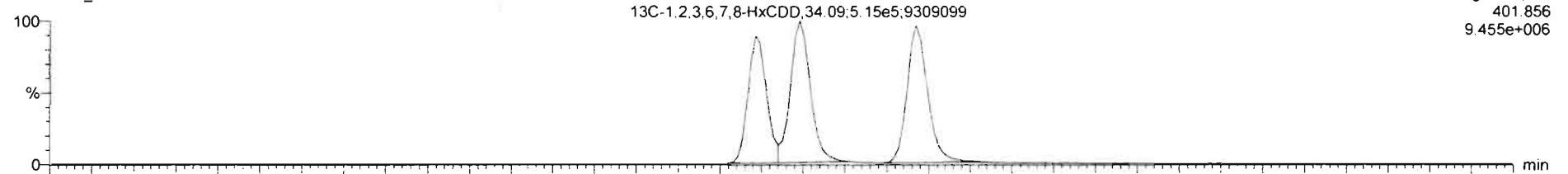


200131R1_1

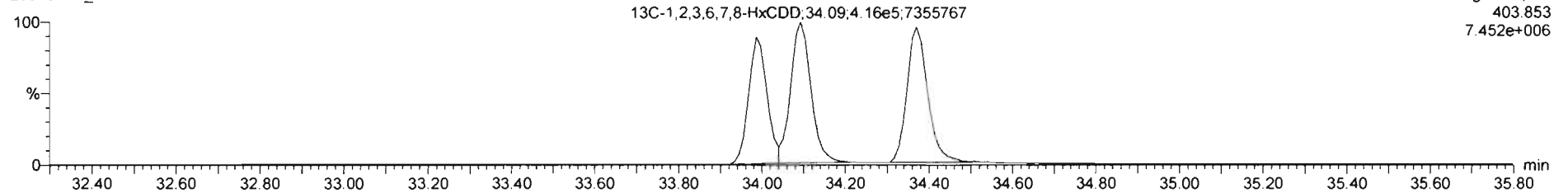


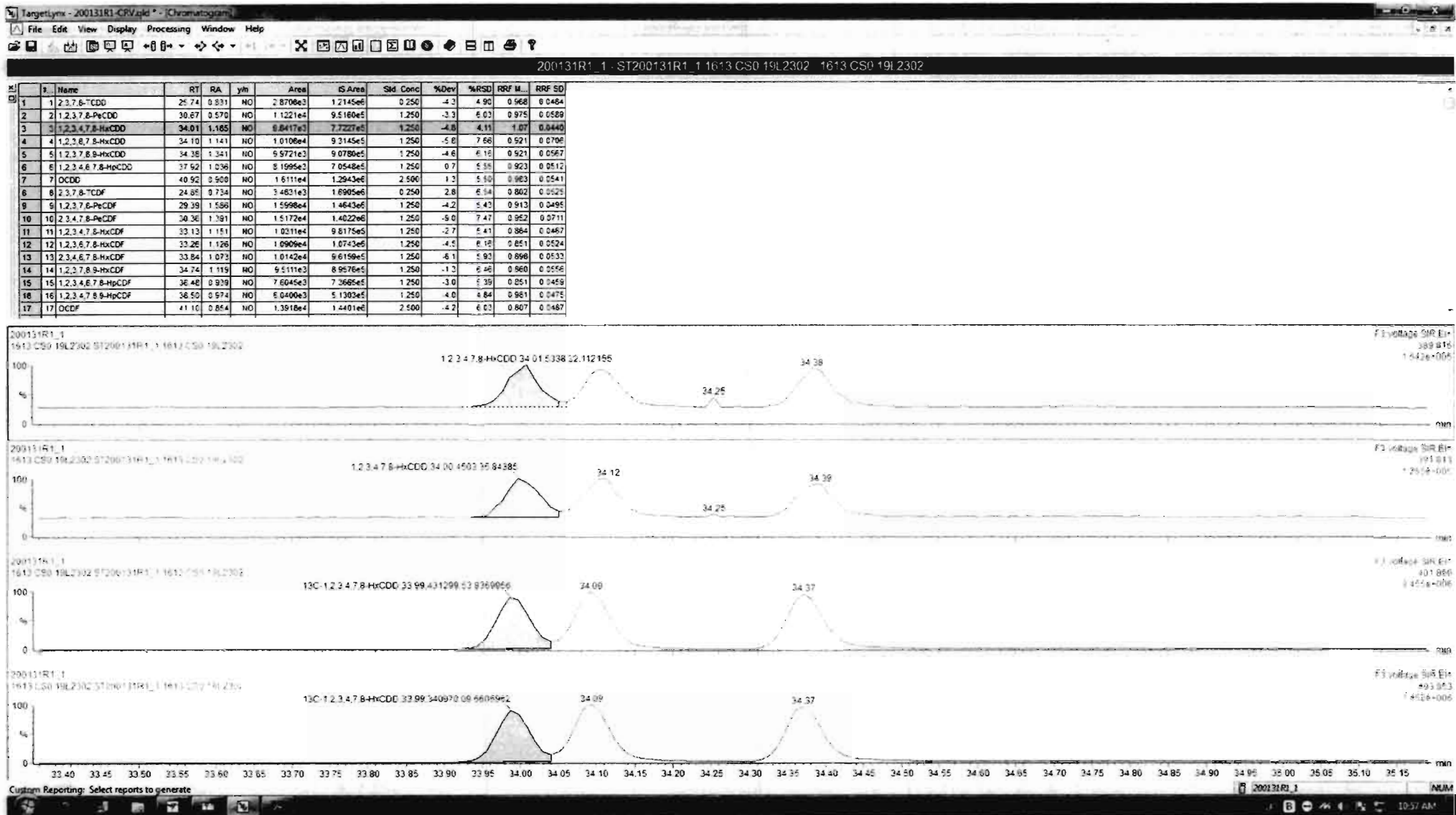
13C-1,2,3,4,7,8-HxCDD

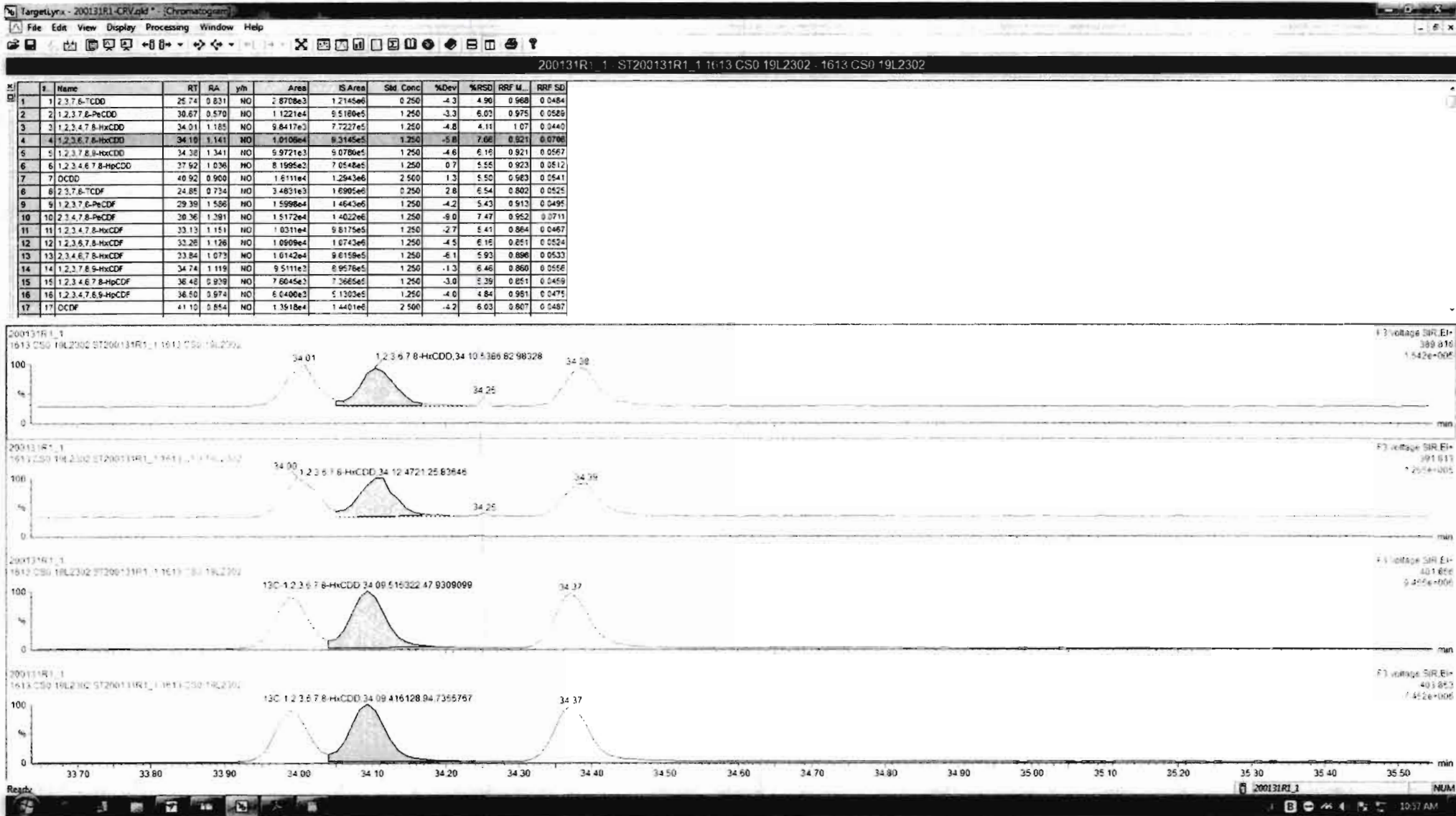
200131R1_1

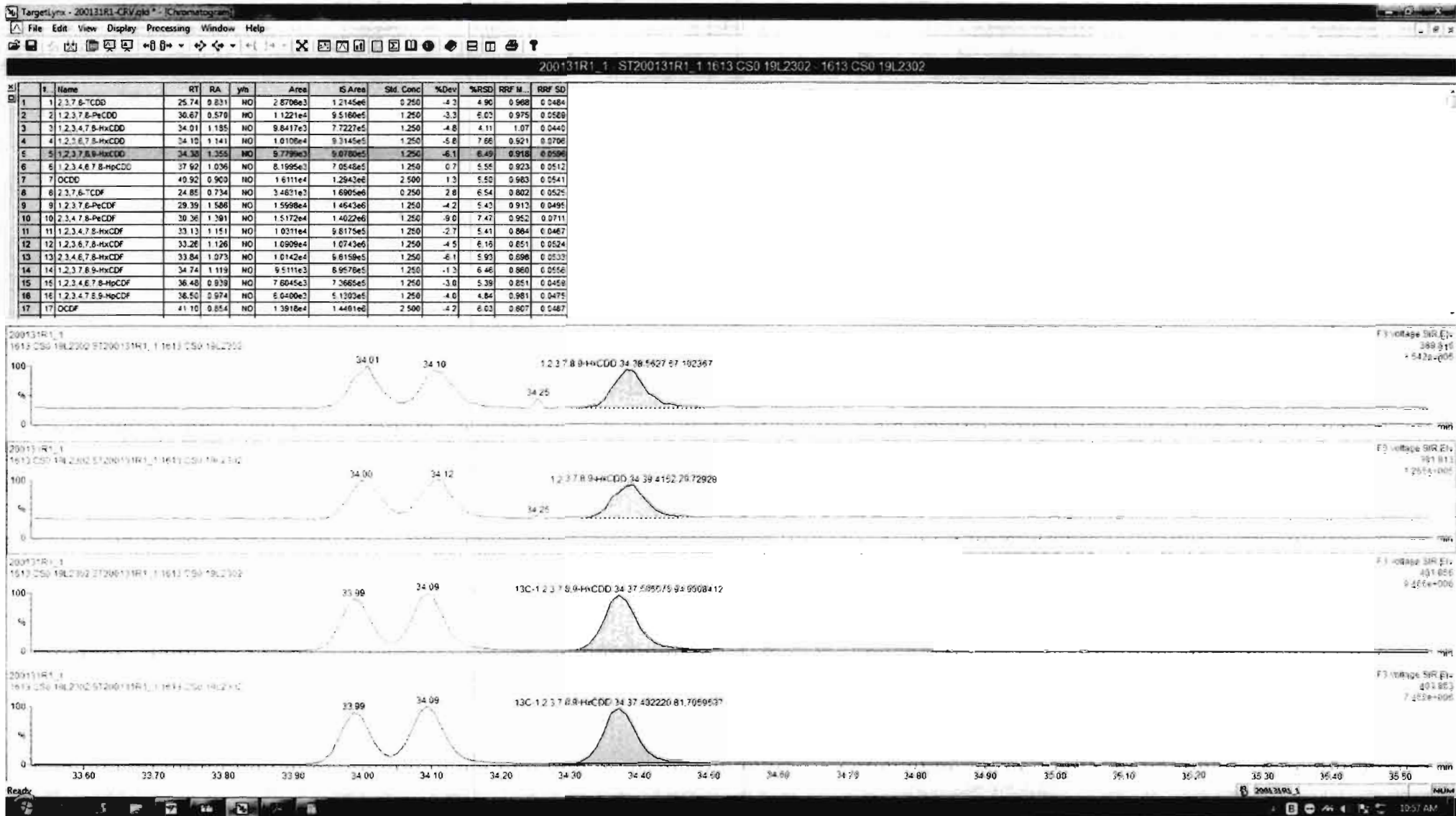


200131R1_1









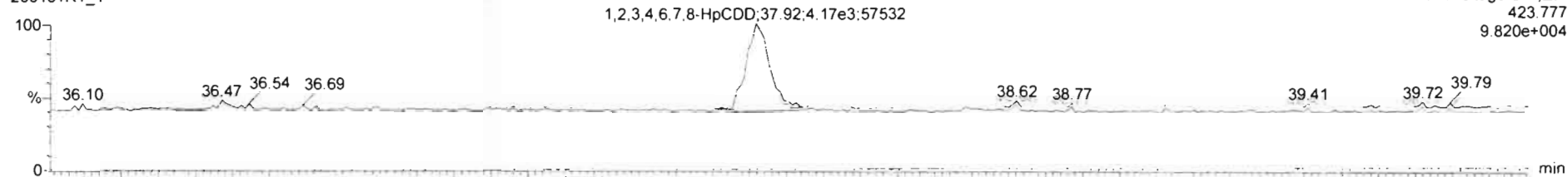
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

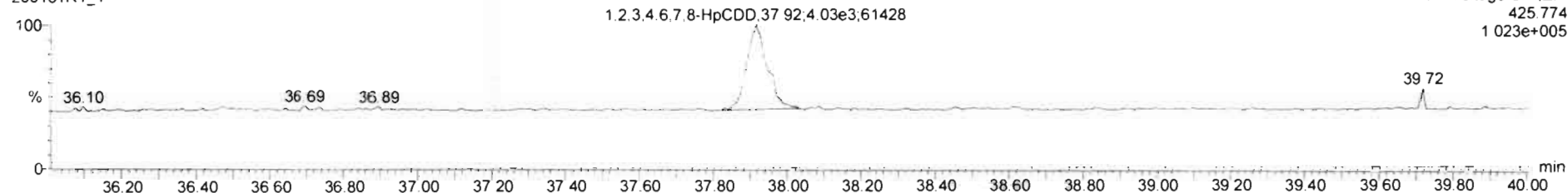
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,4,6,7,8-HpCDD

200131R1_1

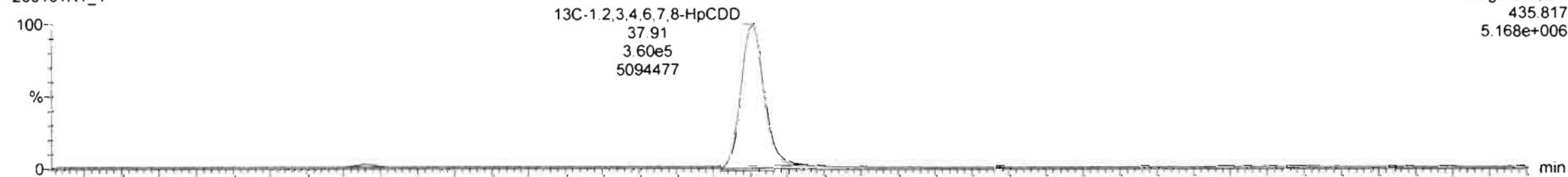


200131R1_1

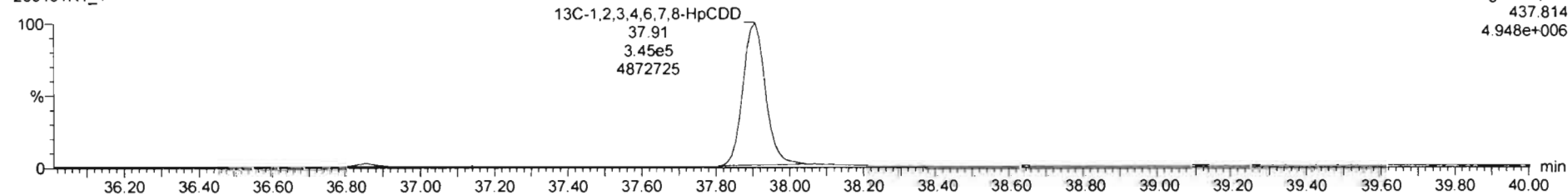


13C-1,2,3,4,6,7,8-HpCDD

200131R1_1



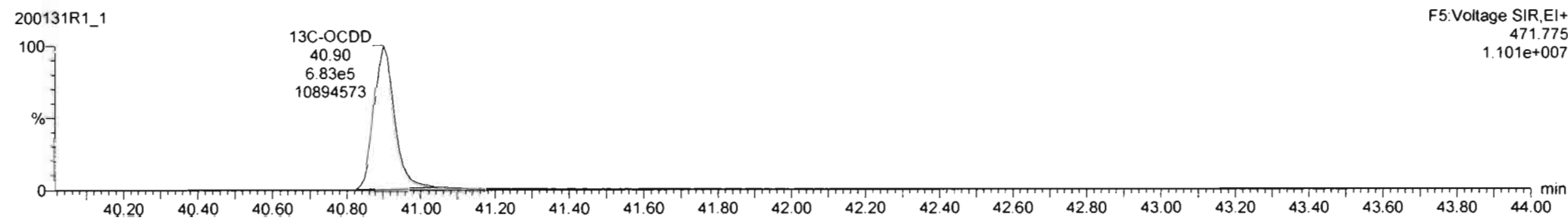
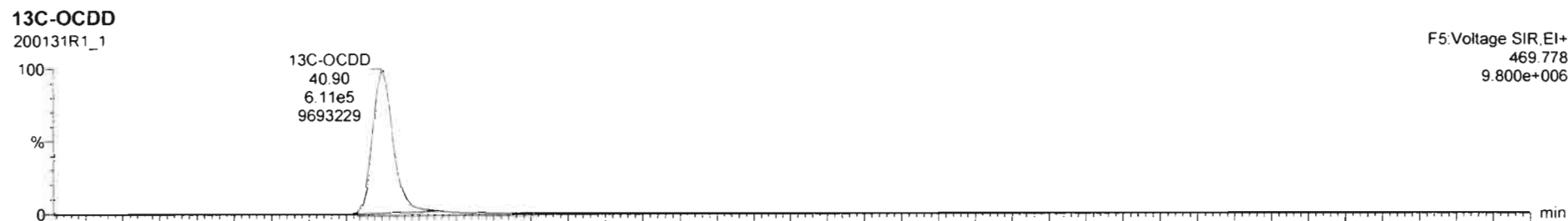
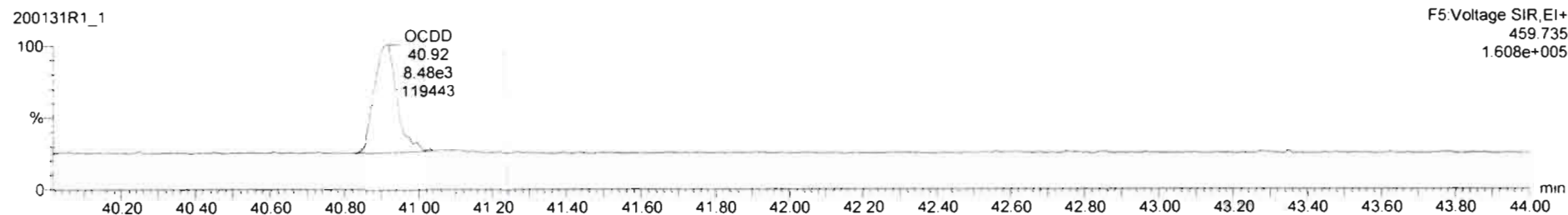
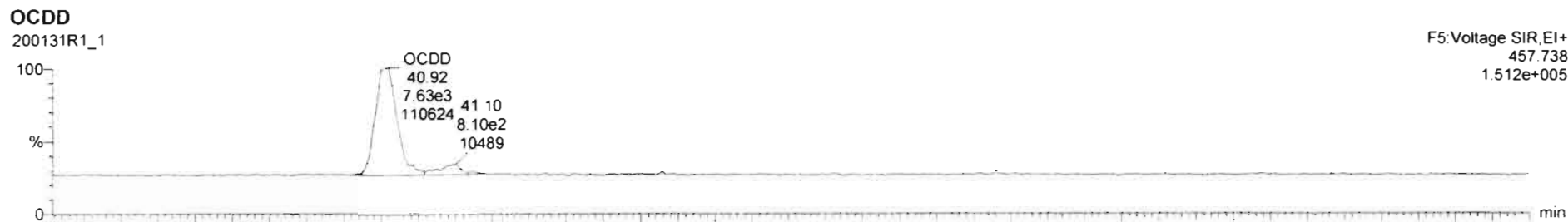
200131R1_1



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

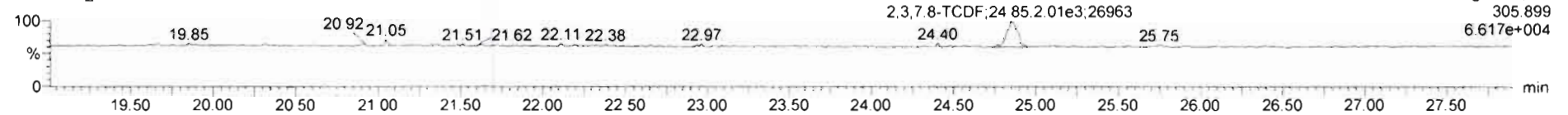
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200131R1_1

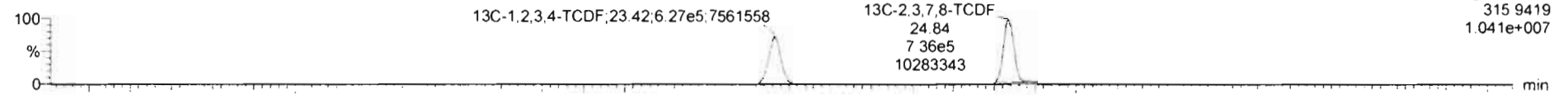


200131R1_1

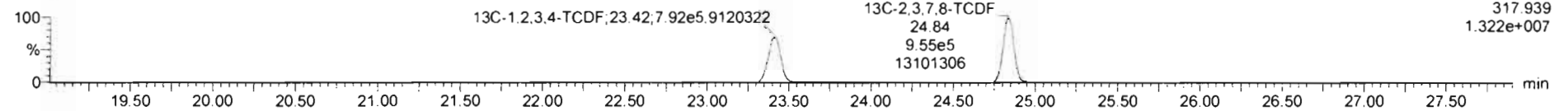


13C-2,3,7,8-TCDF

200131R1_1

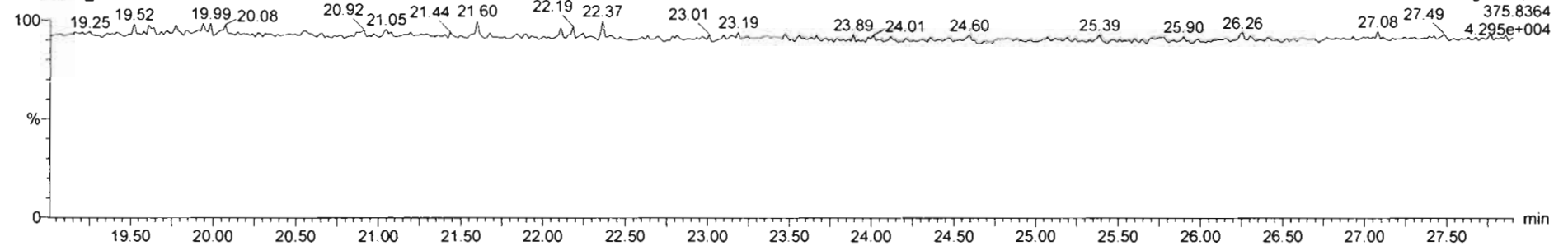


200131R1_1



DPE1

200131R1_1



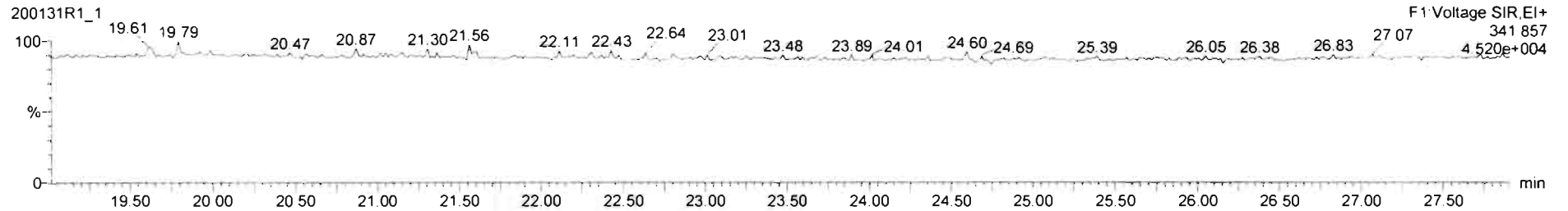
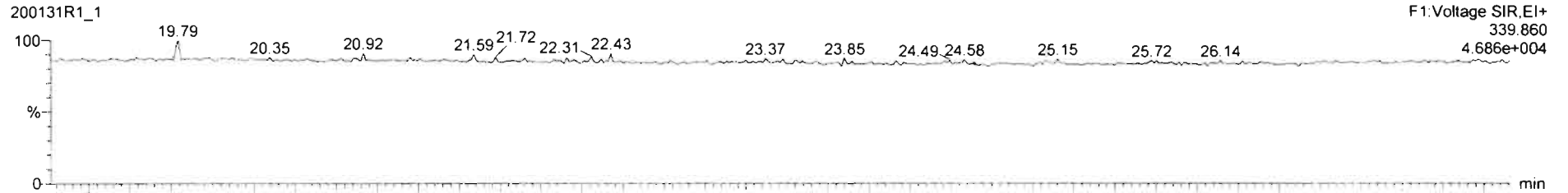
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

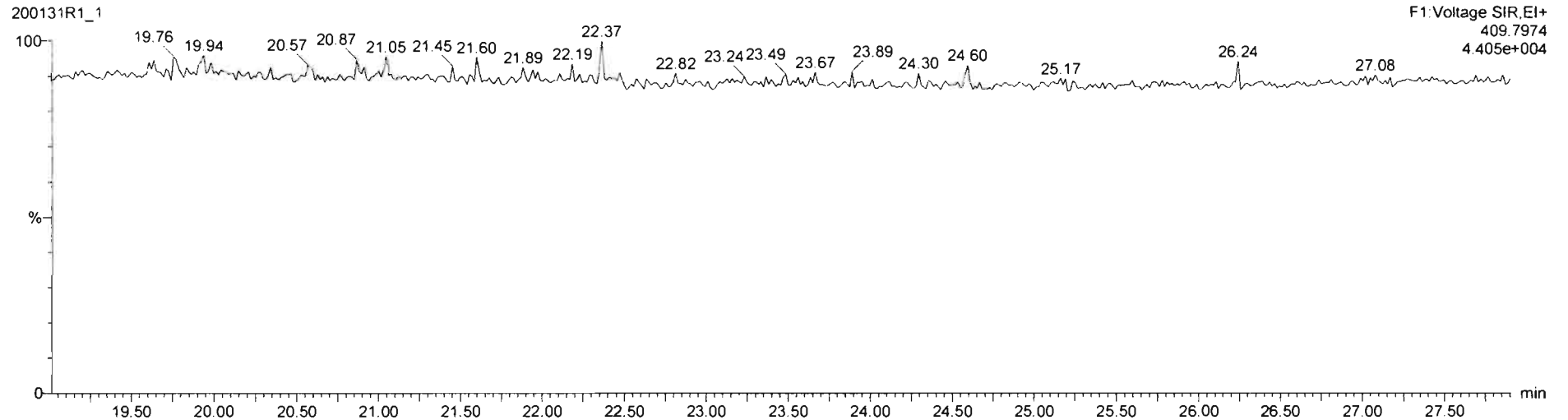
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



Dataset: Untitled

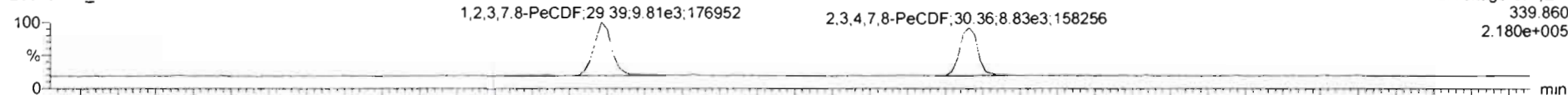
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

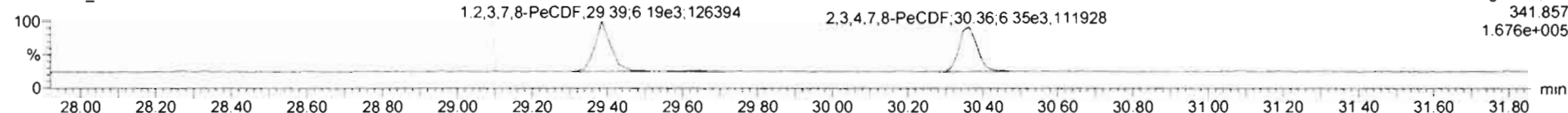
1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
339.860
2.180e+005

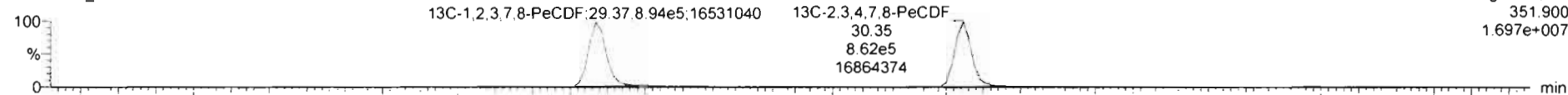
200131R1_1



F2:Voltage SIR,EI+
341.857
1.676e+005

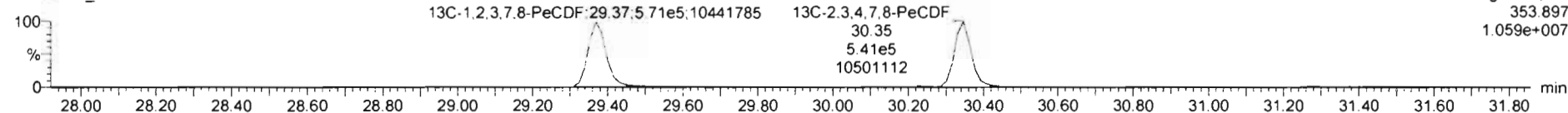
13C-1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
351.900
1.697e+007

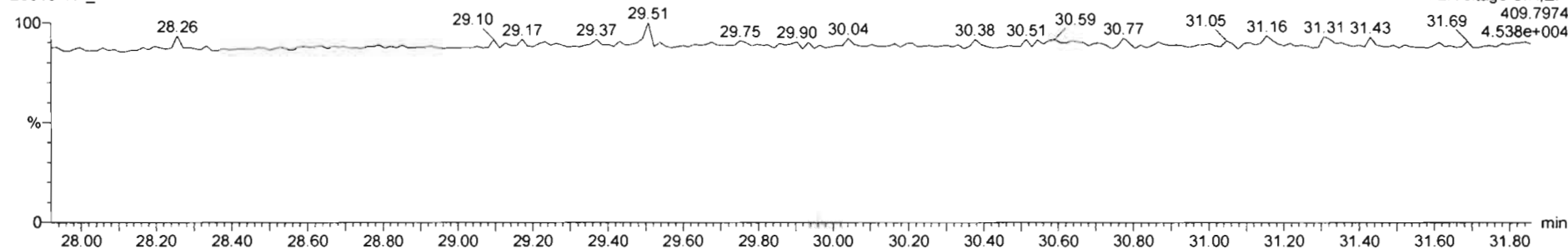
200131R1_1



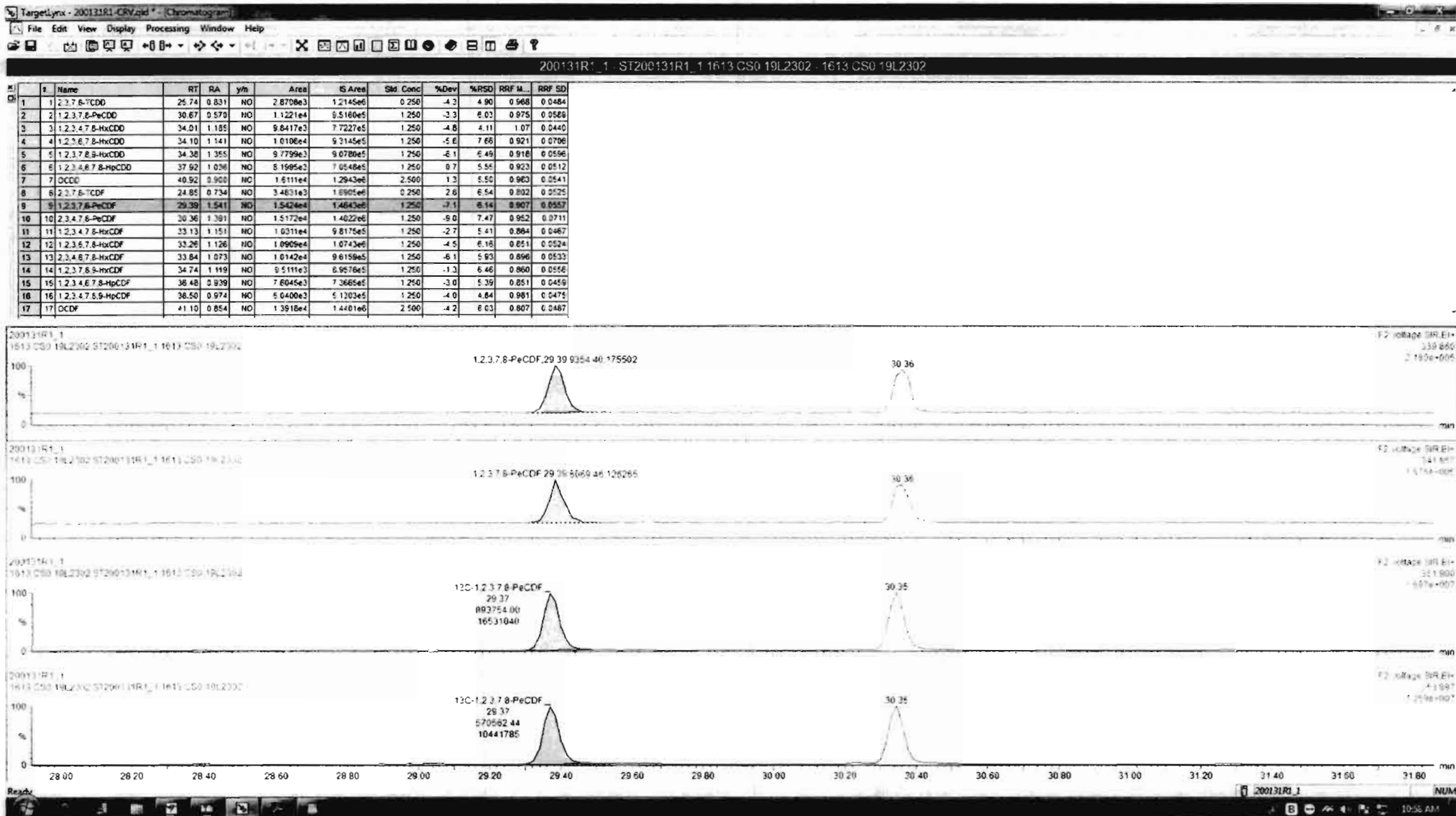
F2:Voltage SIR,EI+
353.897
1.059e+007

DPE2

200131R1_1



F2:Voltage SIR,EI+
409.7974
4.538e+004



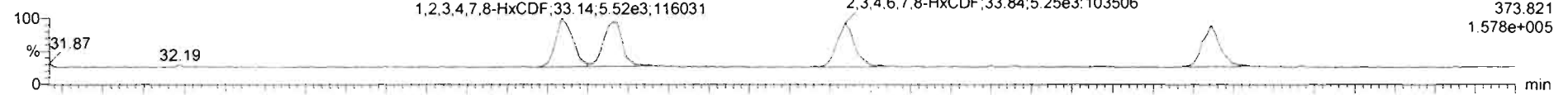
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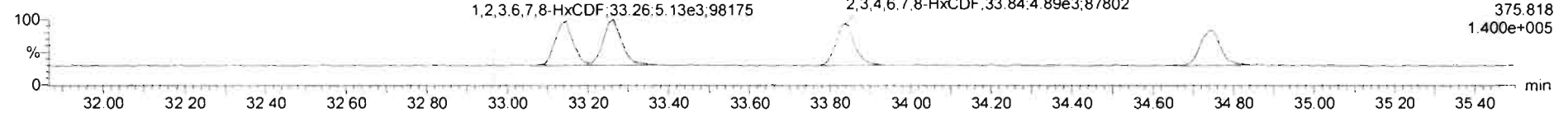
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1,2,3,4,7,8-HxCDF

200131R1_1

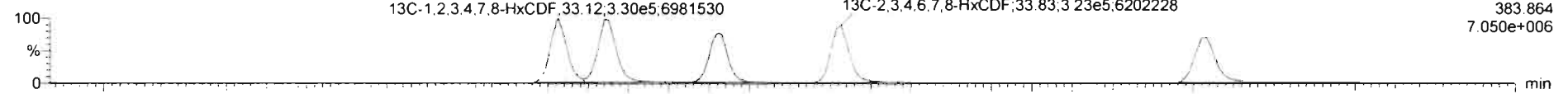


200131R1_1

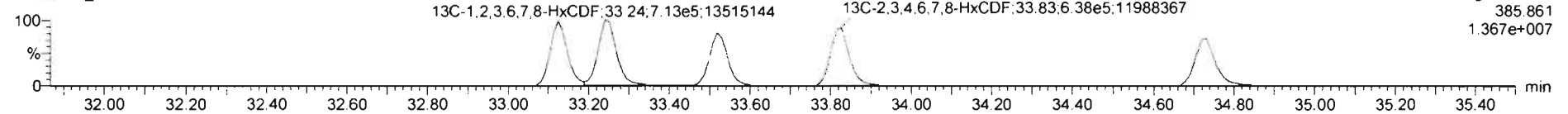


13C-1,2,3,4,7,8-HxCDF

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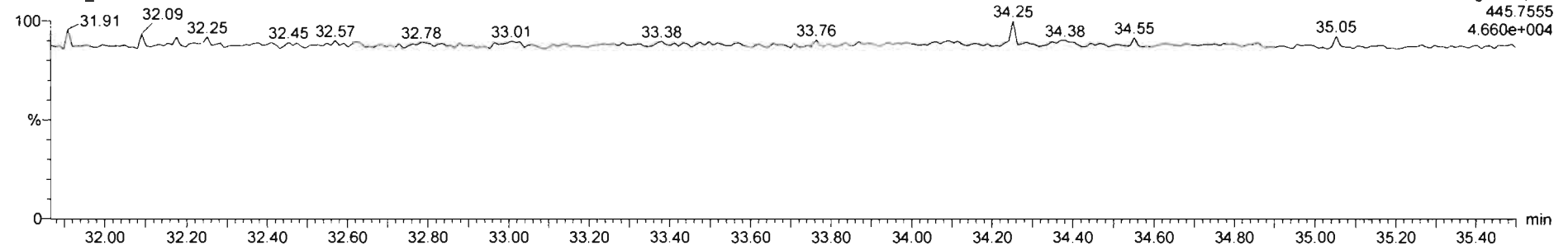


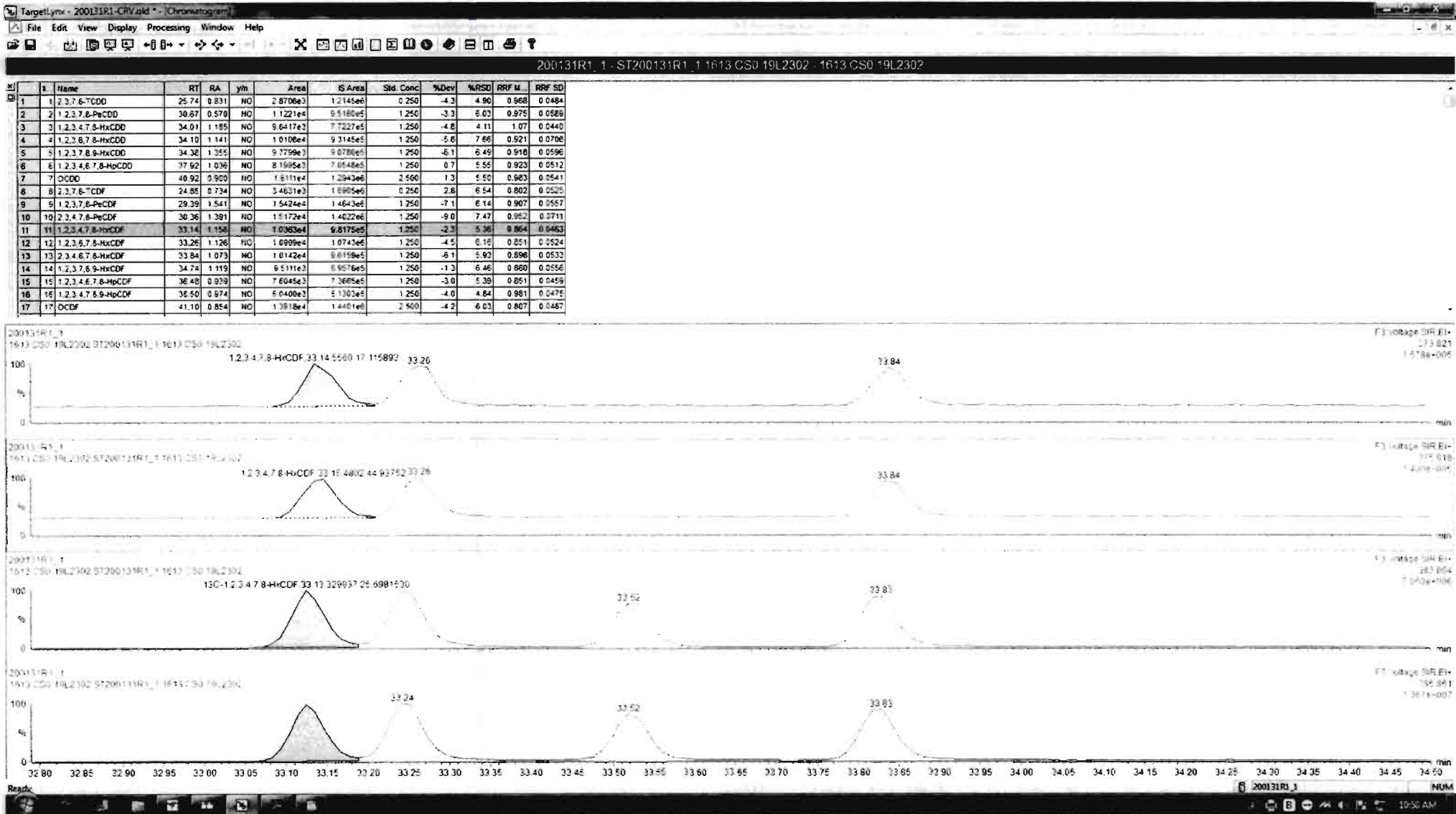
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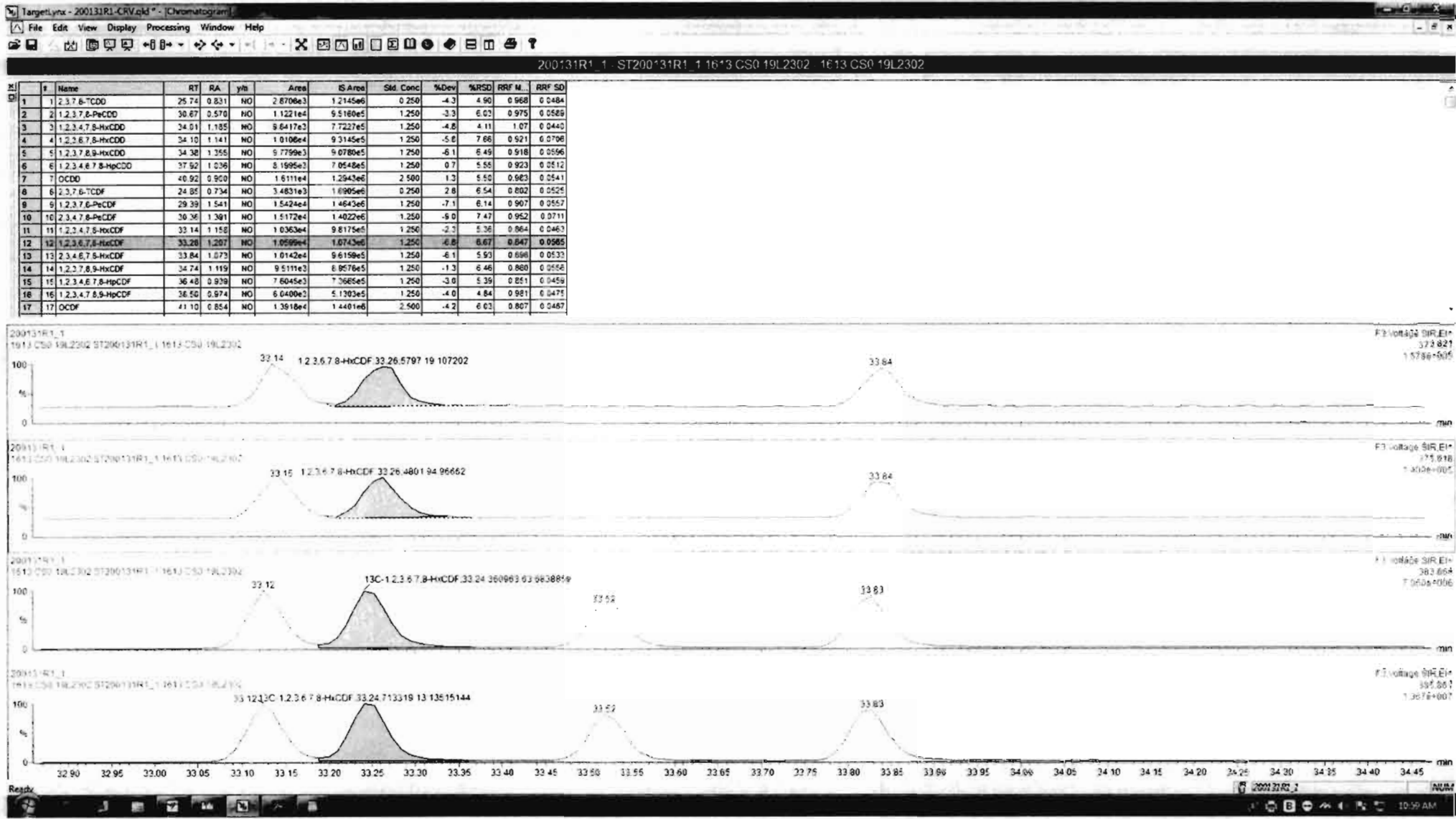


DPE3

200131R1_1





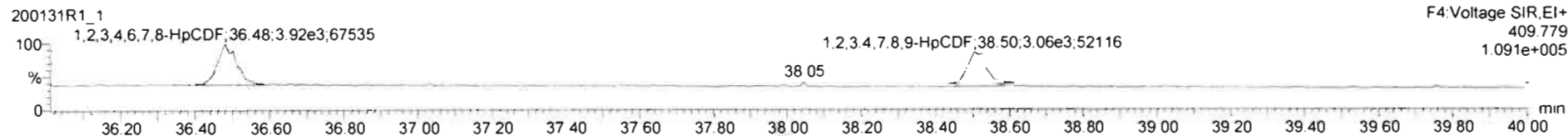
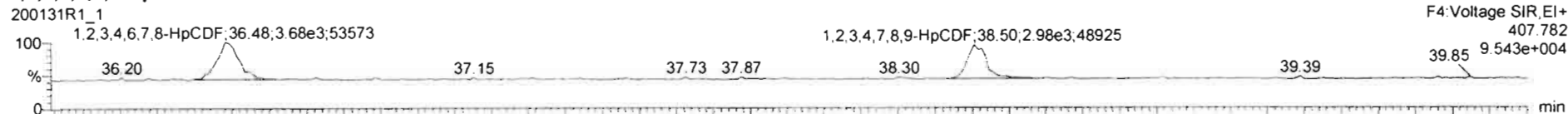


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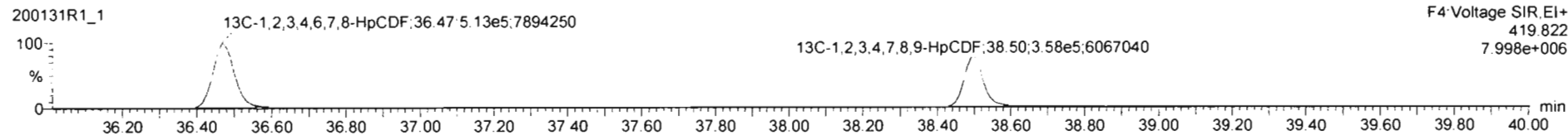
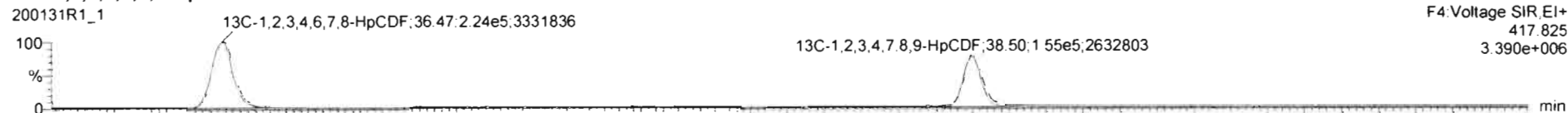
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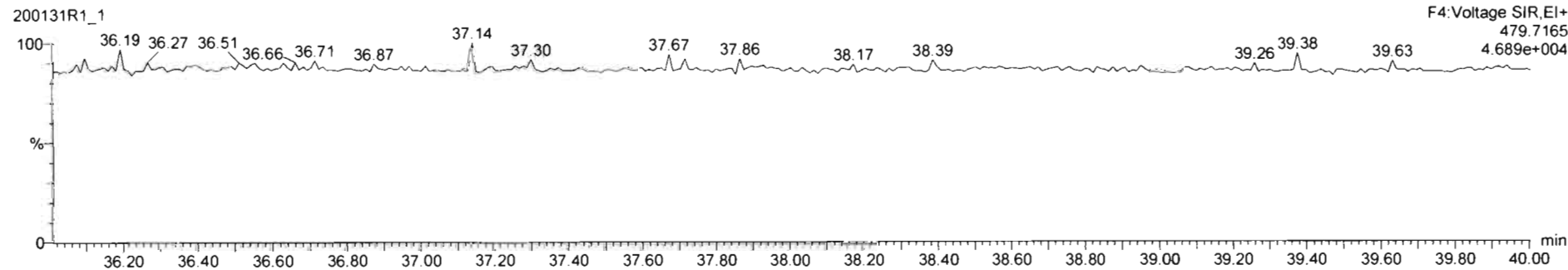
1,2,3,4,6,7,8-HpCDF

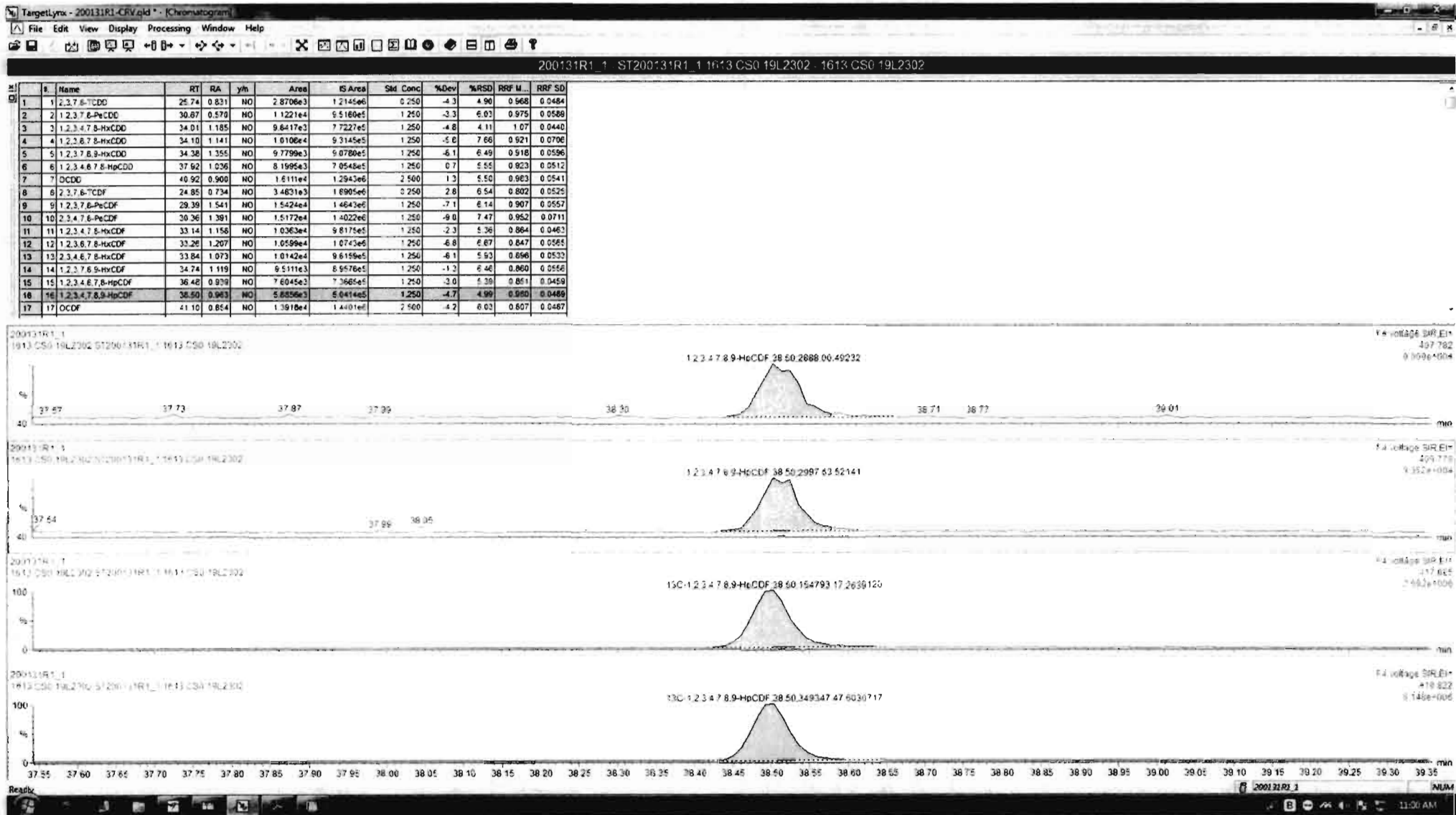


13C-1,2,3,4,6,7,8-HpCDF



DPE4



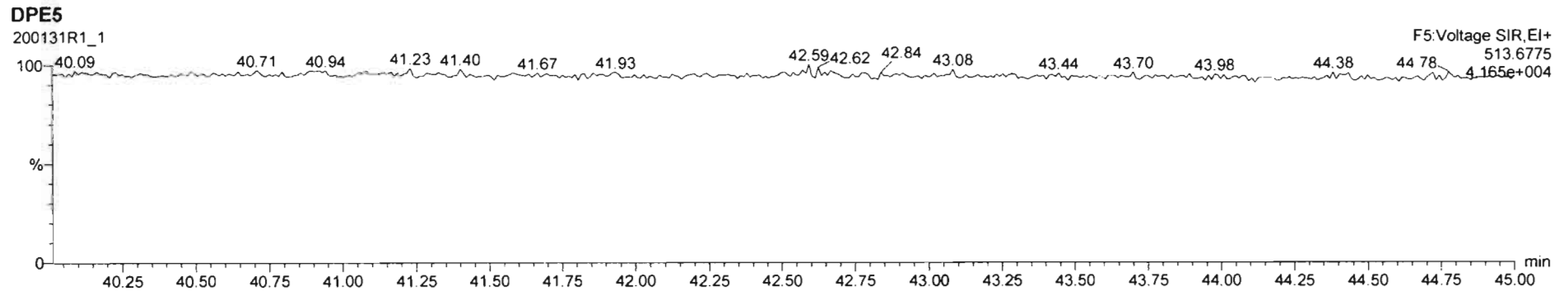
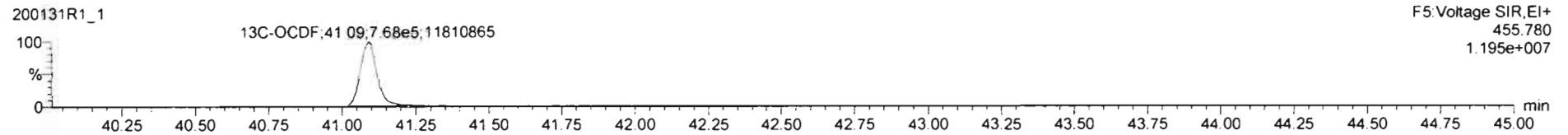
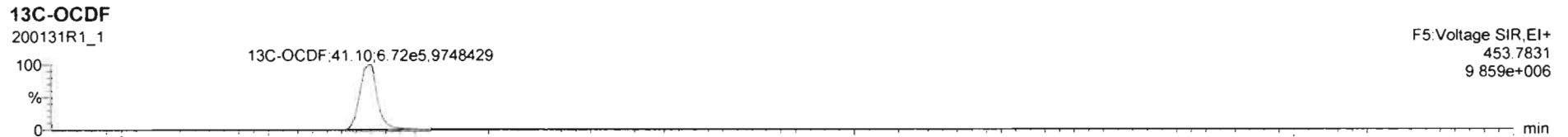
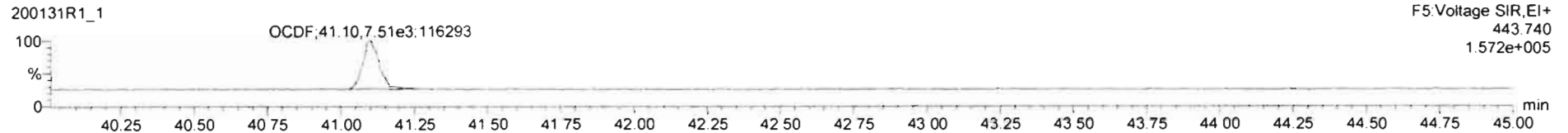
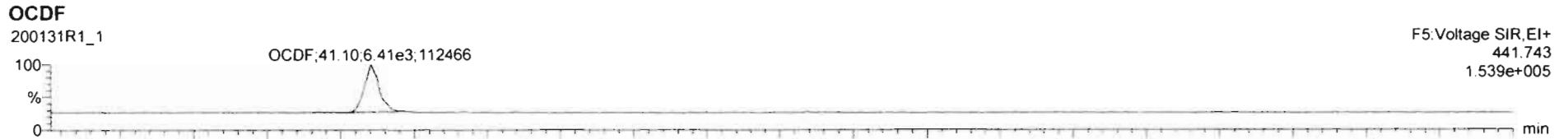


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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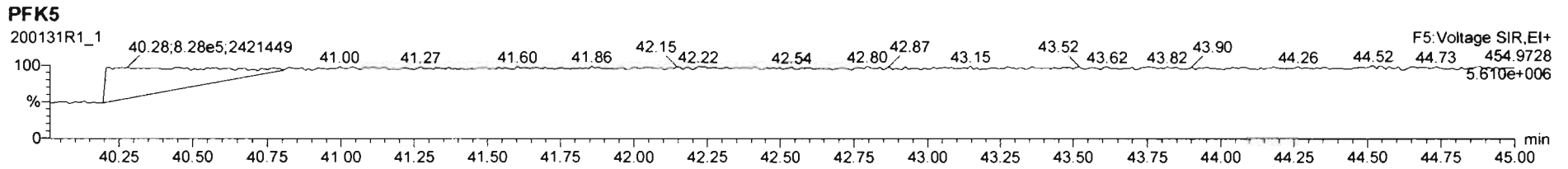
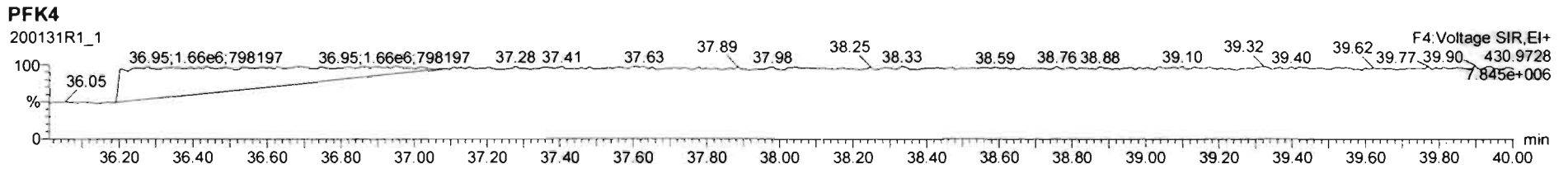
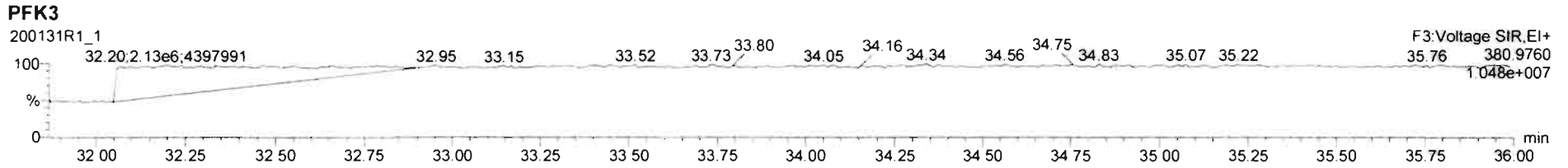
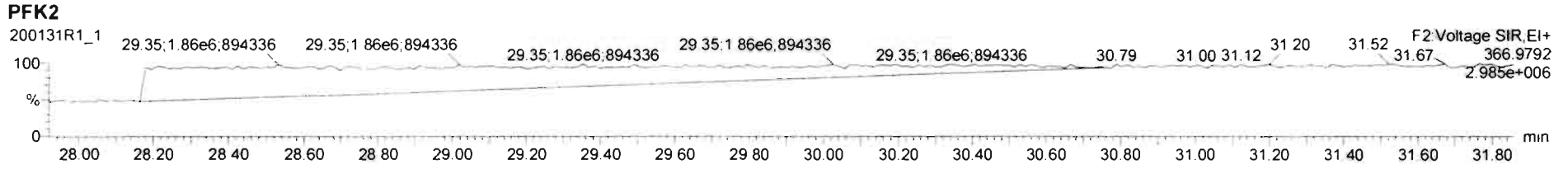
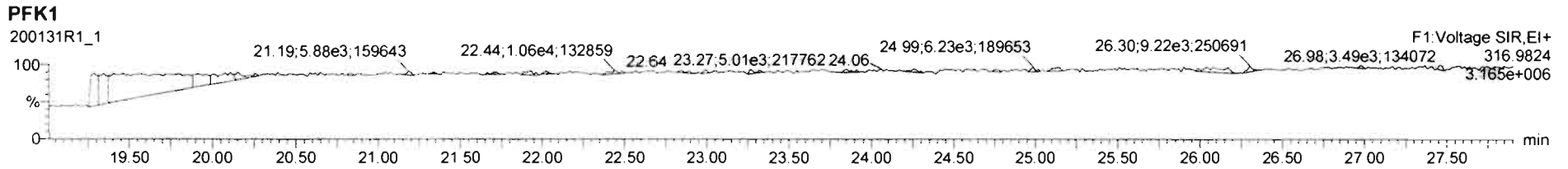


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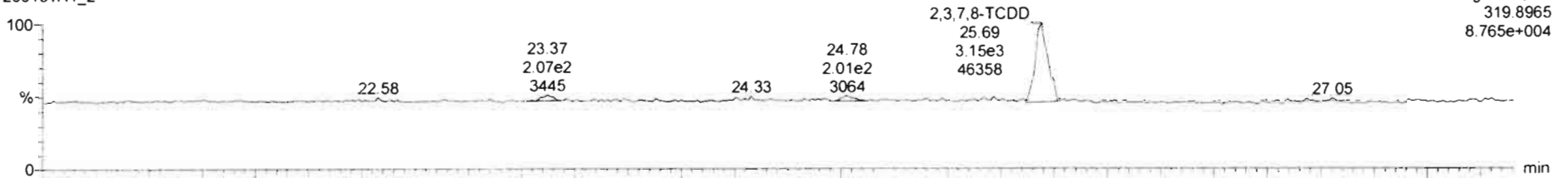
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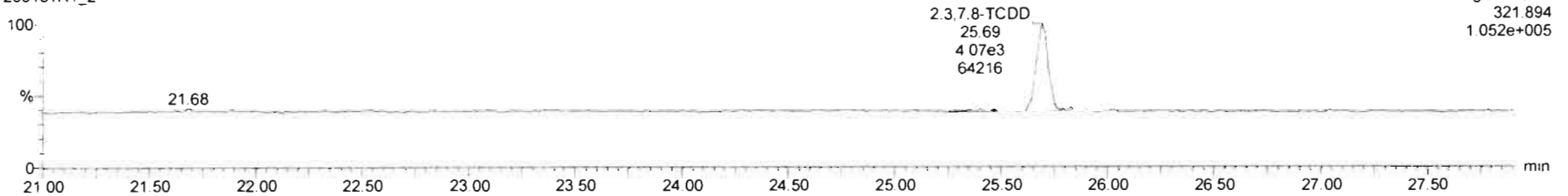
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2,3,7,8-TCDD

200131R1_2

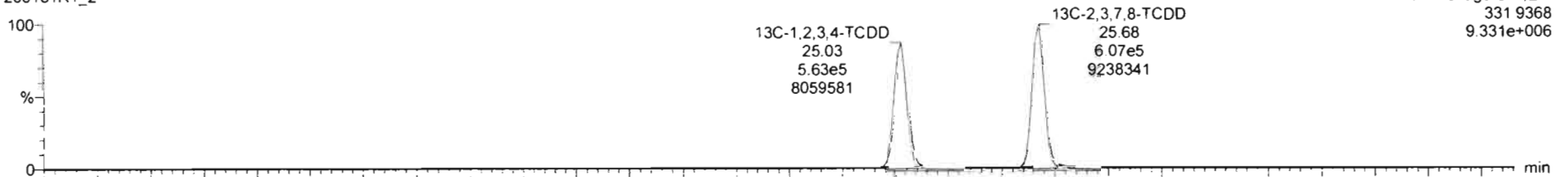


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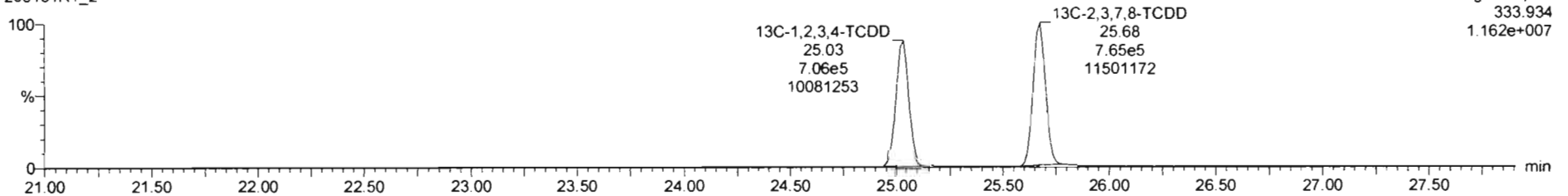


13C-2,3,7,8-TCDD

200131R1_2



200131R1_2



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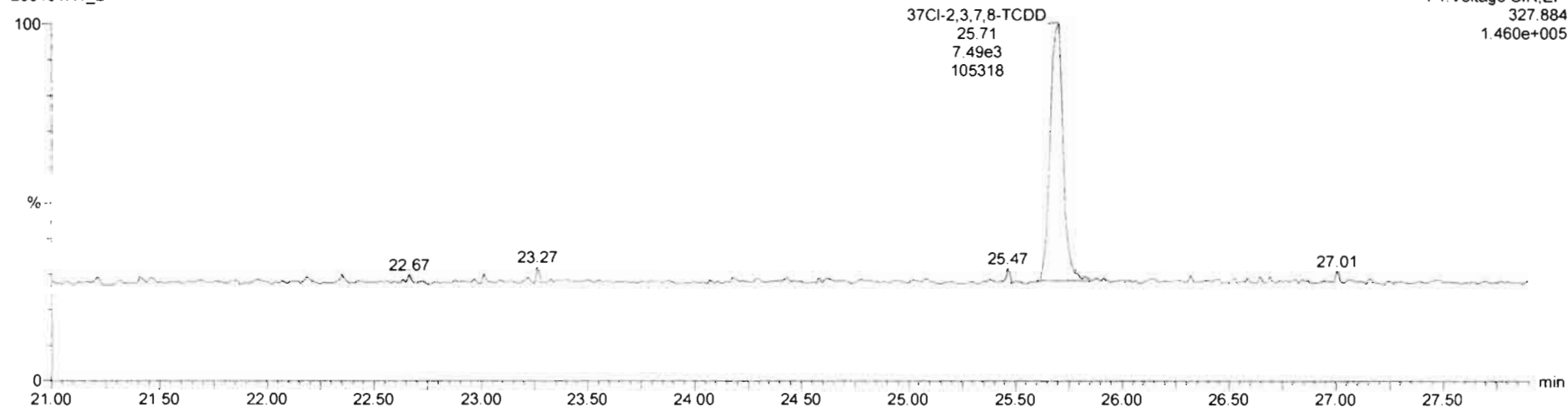
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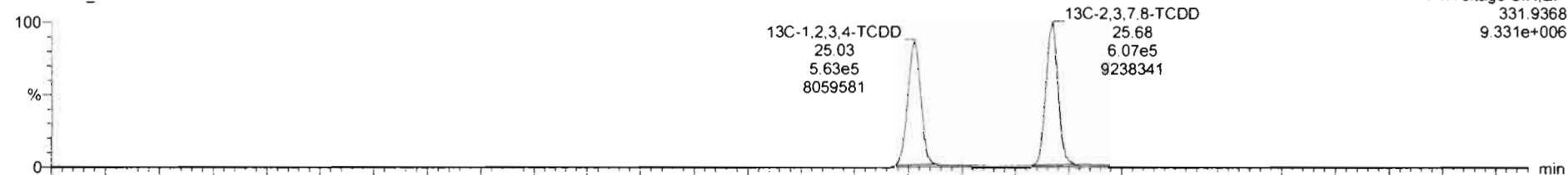
37Cl-2,3,7,8-TCDD

200131R1_2

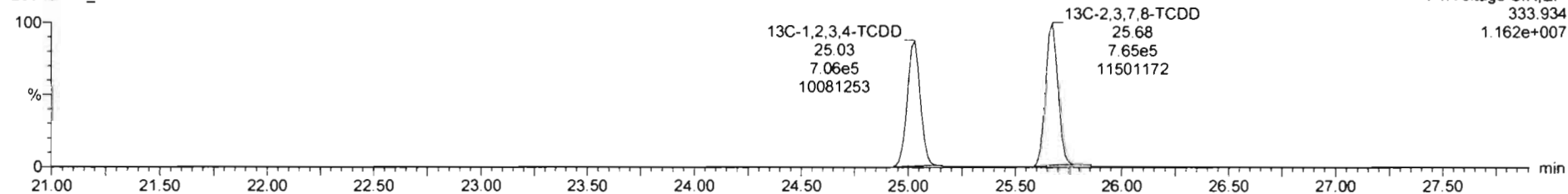


13C-1,2,3,4-TCDD

200131R1_2



200131R1_2



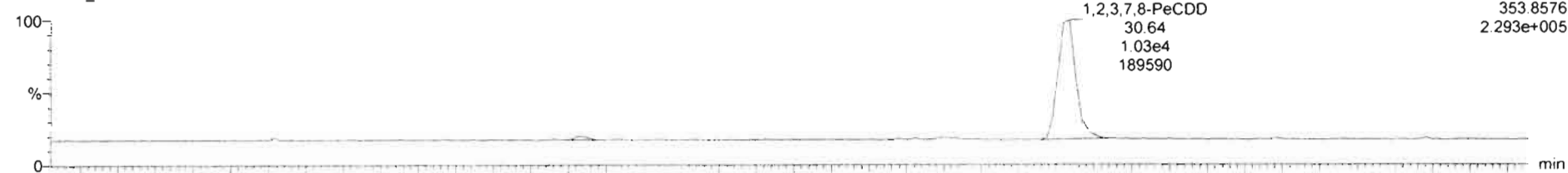
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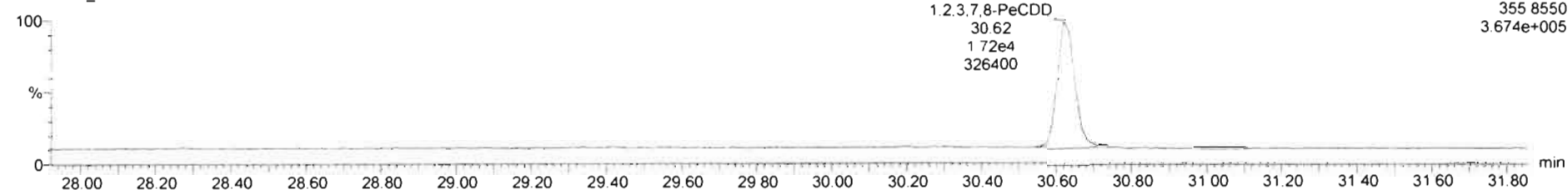
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1,2,3,7,8-PeCDD

200131R1_2

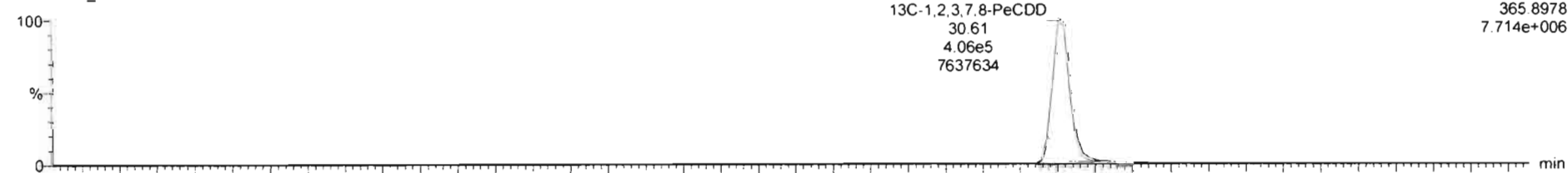


200131R1_2

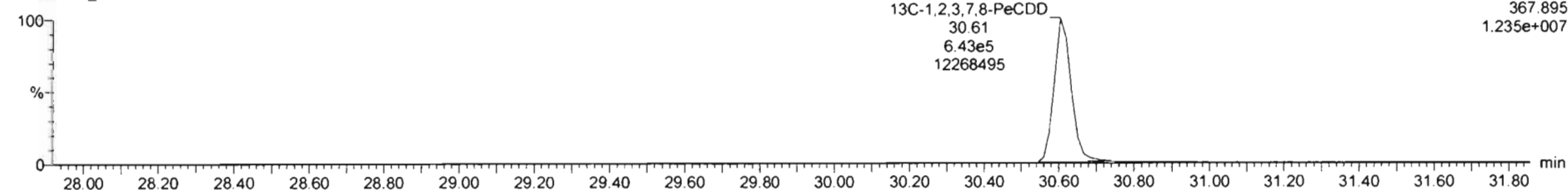


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200131R1_2



200131R1_2



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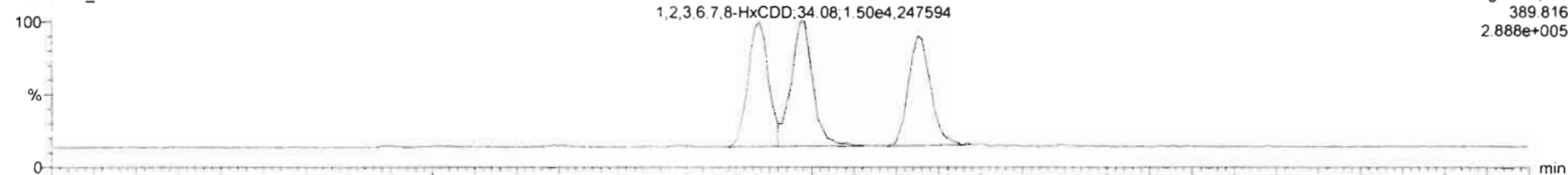
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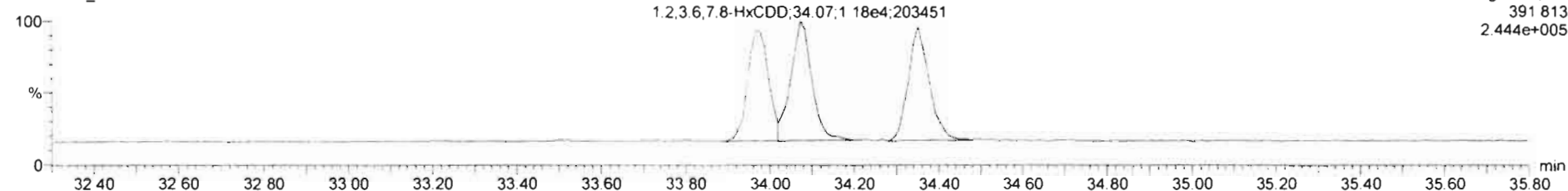
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1,2,3,4,7,8-HxCDD

200131R1_2

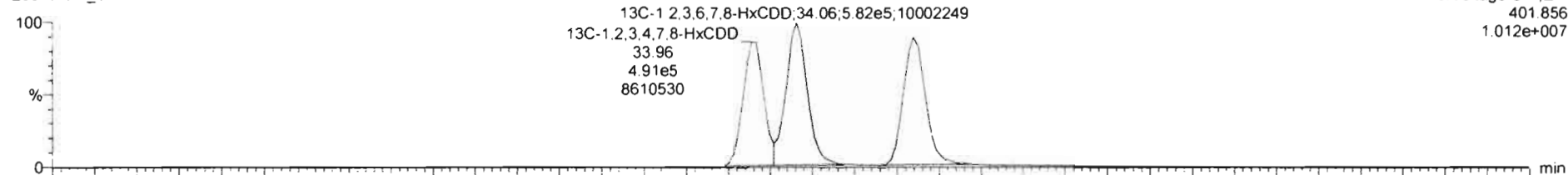


200131R1_2

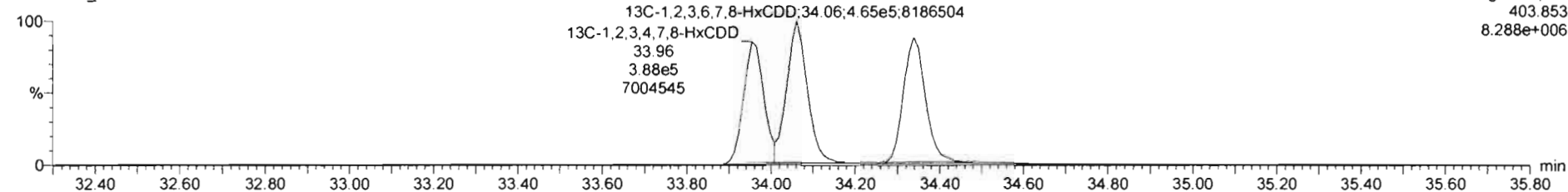


13C-1,2,3,4,7,8-HxCDD

200131R1_2



200131R1_2



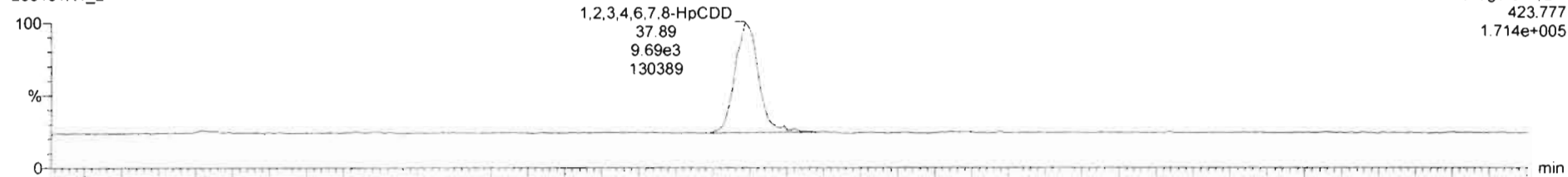
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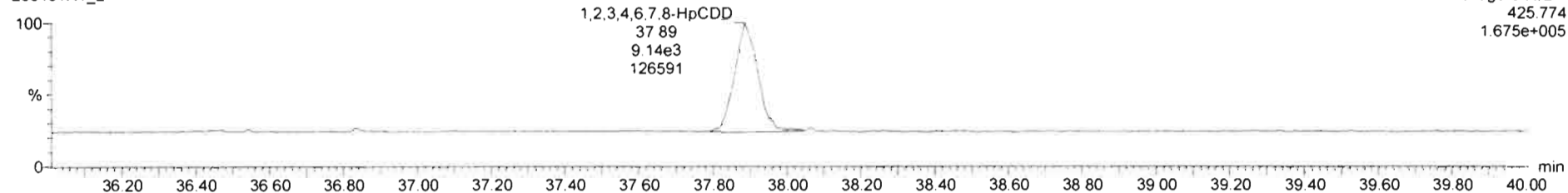
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1,2,3,4,6,7,8-HpCDD

200131R1_2

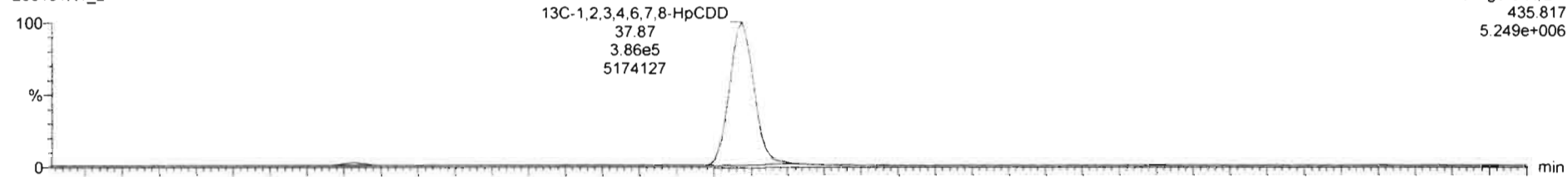


200131R1_2

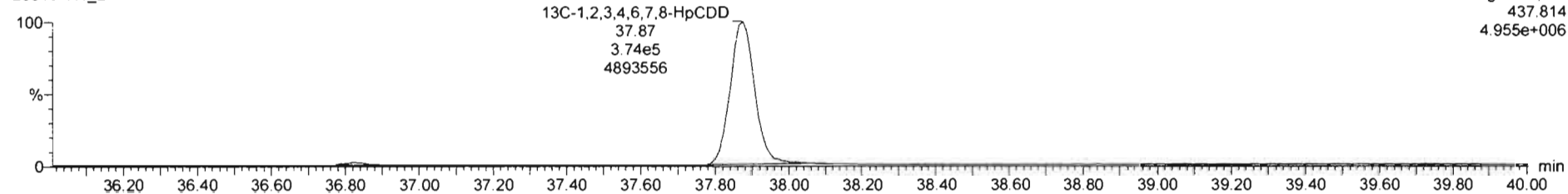


13C-1,2,3,4,6,7,8-HpCDD

200131R1_2



200131R1_2

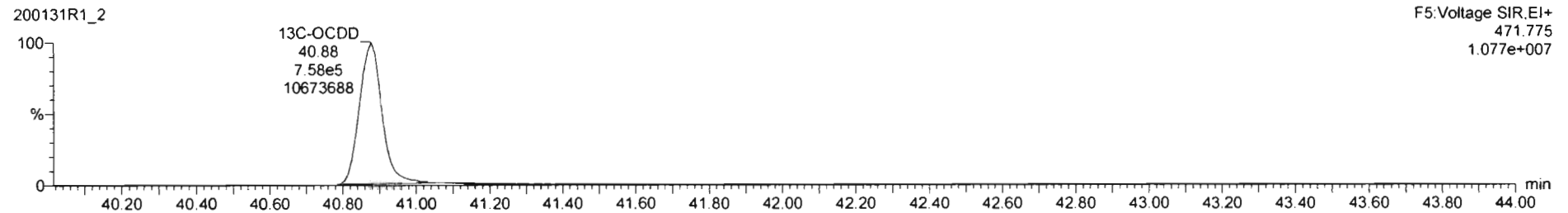
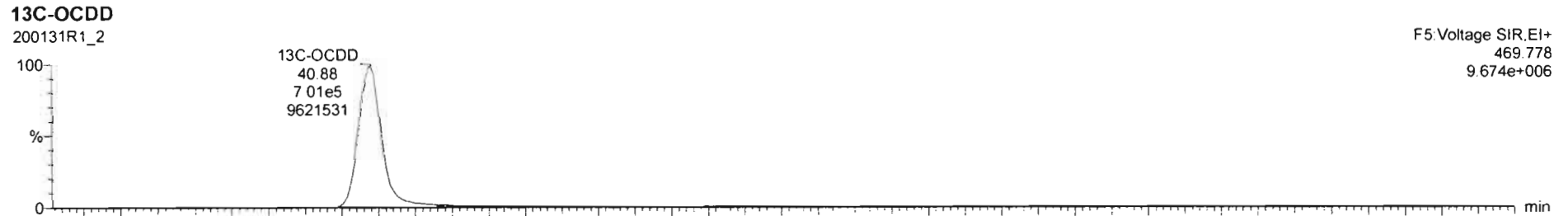
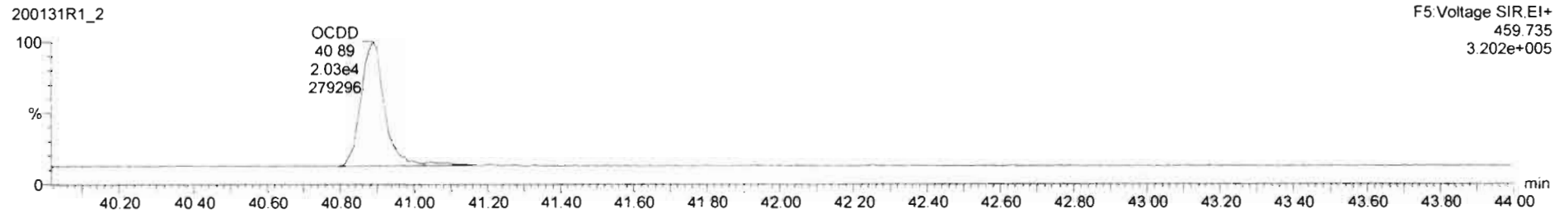
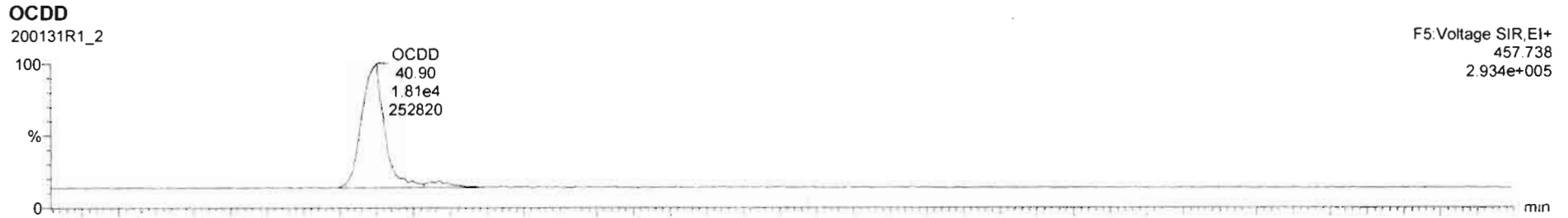


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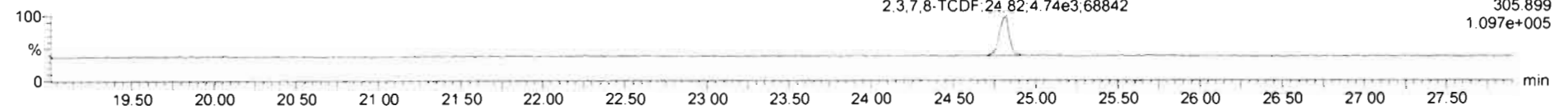
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2,3,7,8-TCDF

200131R1_2

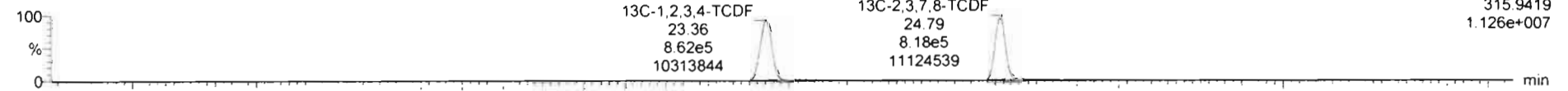


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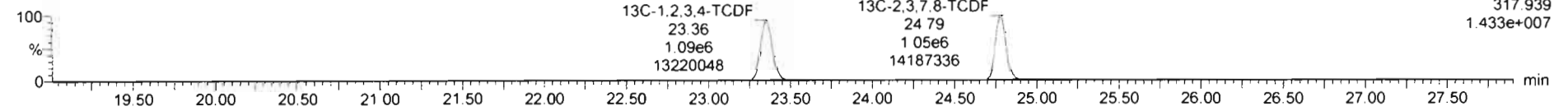


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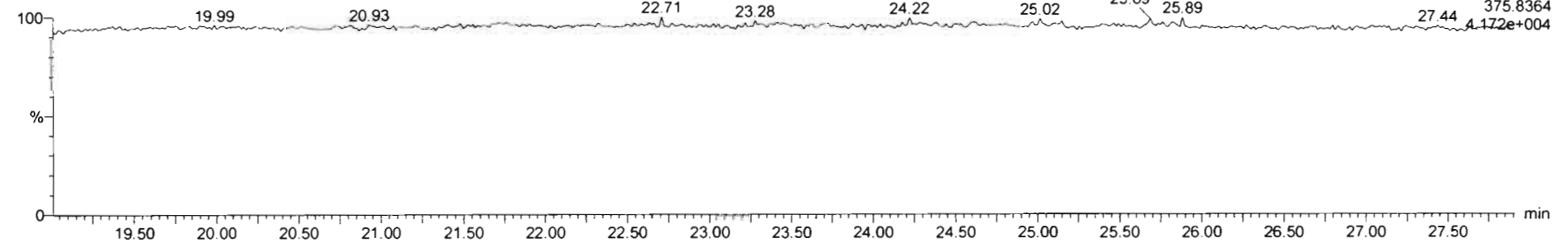


200131R1_2



DPE1

200131R1_2



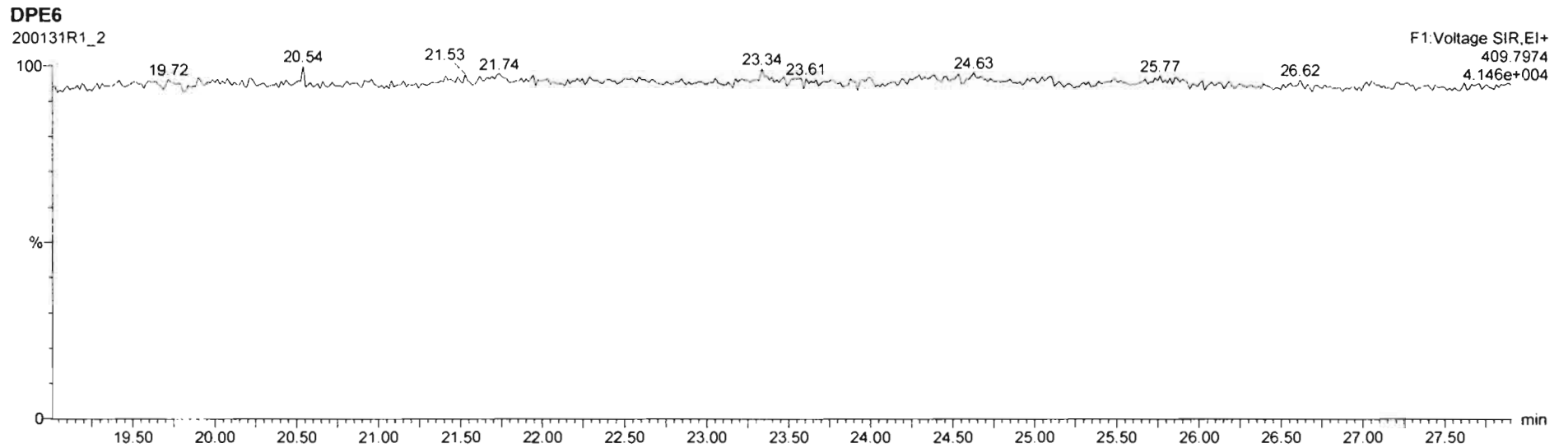
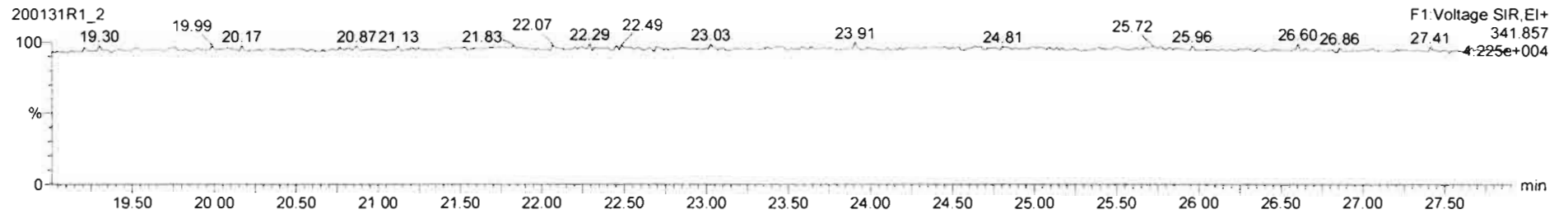
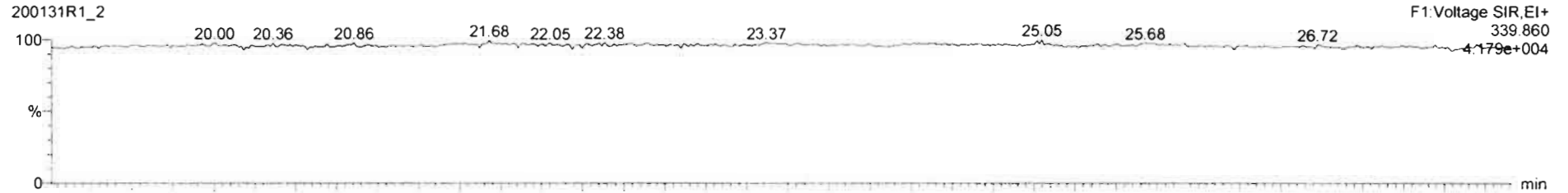
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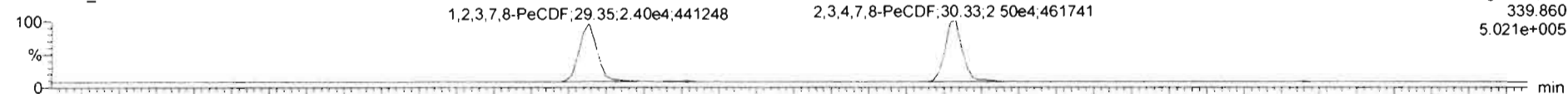
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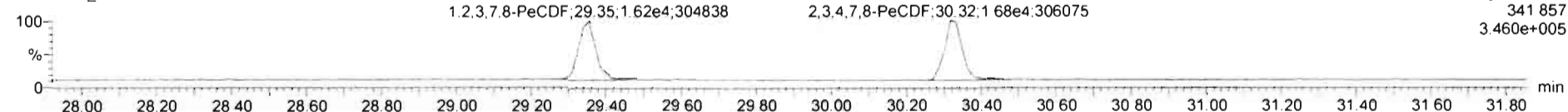
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1,2,3,7,8-PeCDF

200131R1_2

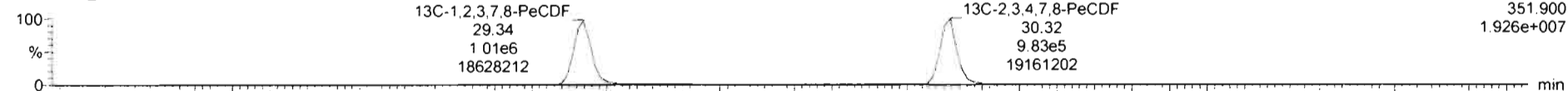


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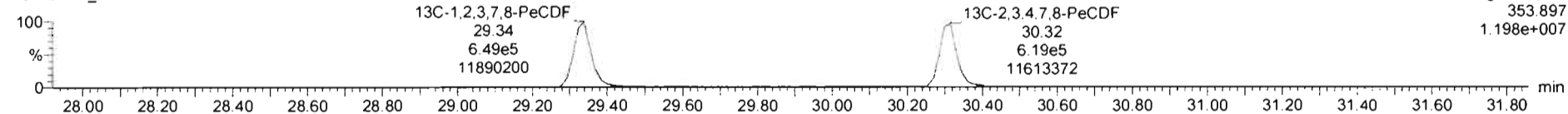


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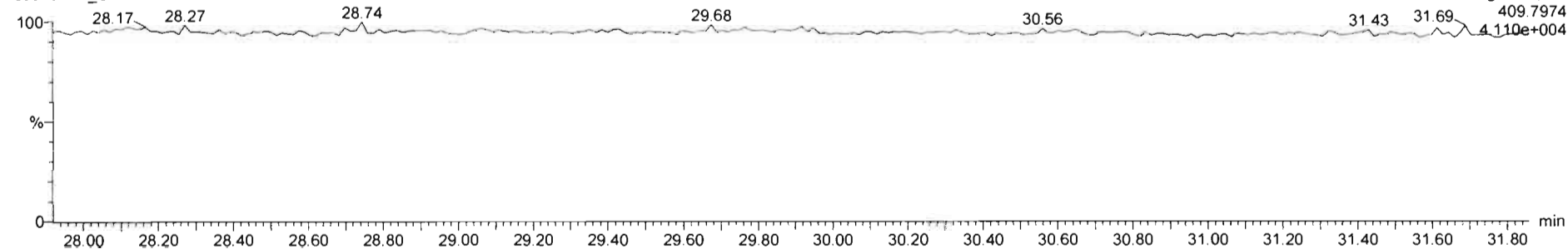


200131R1_2



DPE2

200131R1_2



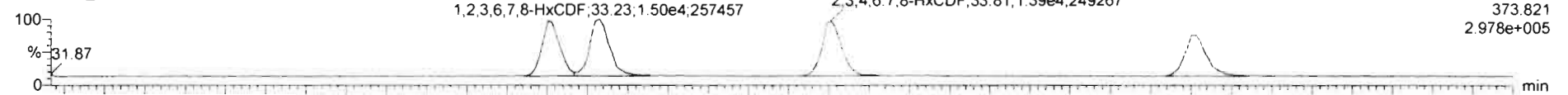
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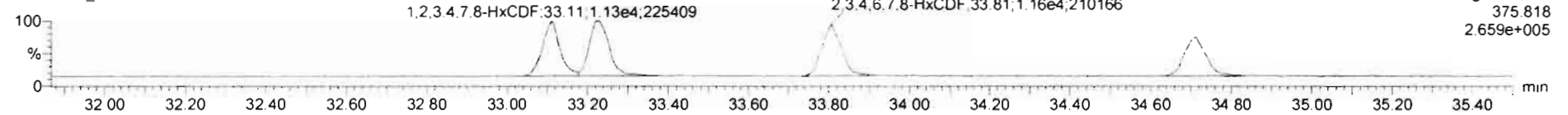
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1,2,3,4,7,8-HxCDF

200131R1_2

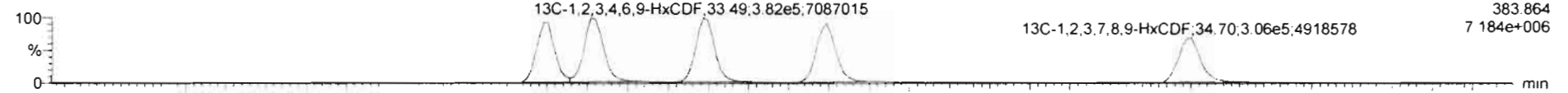


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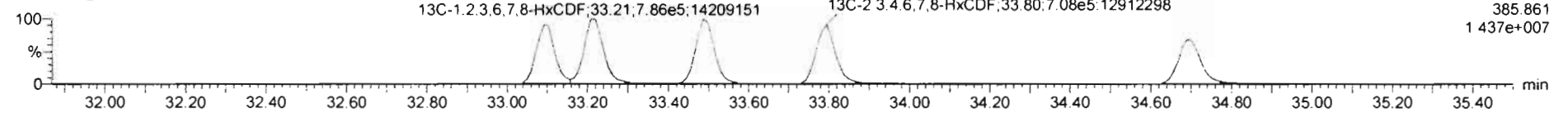


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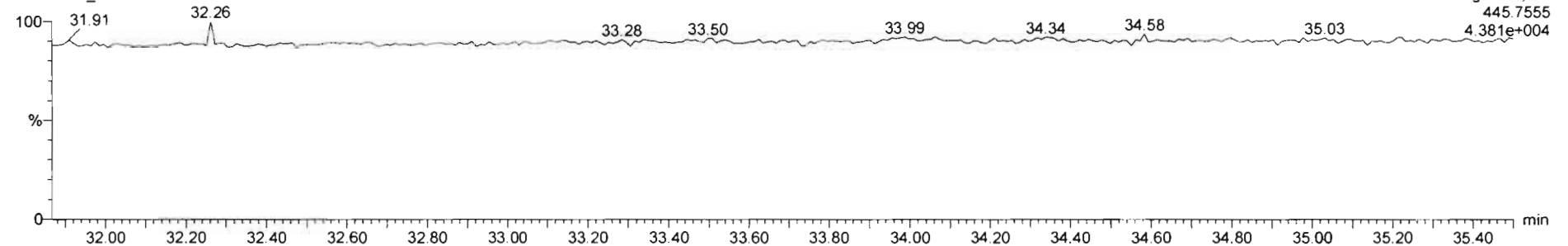


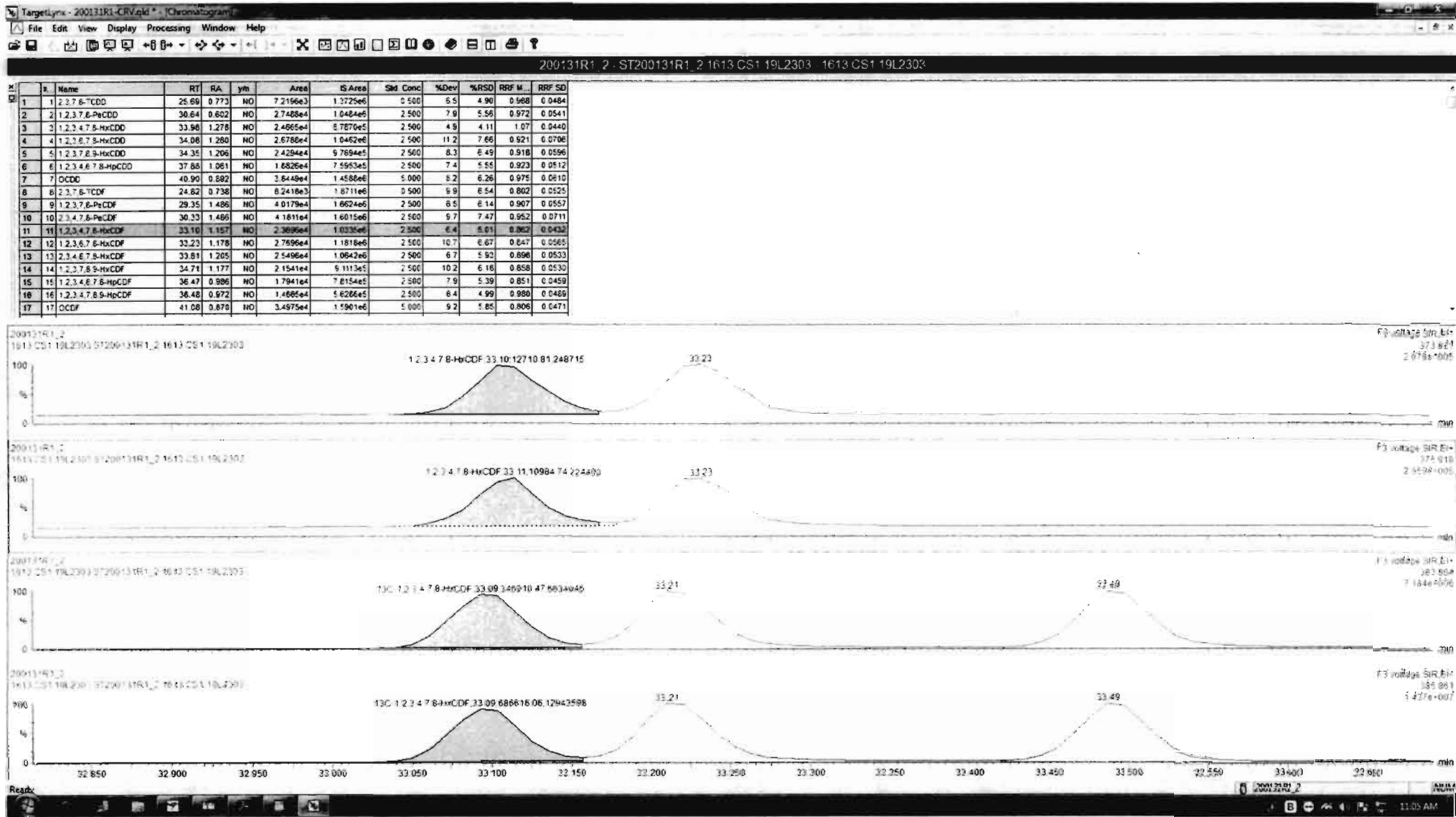
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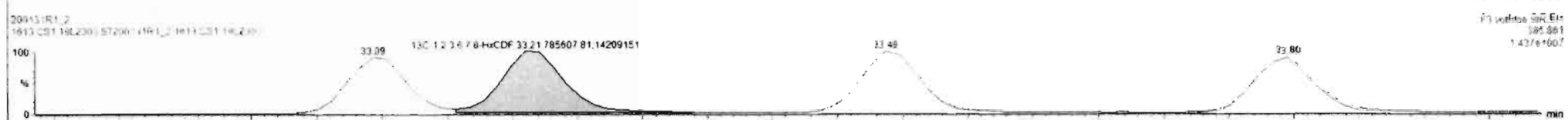
DPE3

200131R1_2





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2	2 1 2 3 7 8-PeCDD	30.64	0.802	NO	2.7488e4	1.0484e6	2.500	7.9	5.58	0.972	0.0541
3	3 1 2 3 4 7 8-HxCDD	33.96	1.278	NO	2.6685e4	8.7870e5	2.500	4.9	4.11	1.07	0.0440
4	4 1 2 3 8 7 8-HxCDD	34.08	1.280	NO	2.6786e4	1.0462e6	2.500	11.2	7.66	0.921	0.0706
5	5 1 2 3 7 8 9-HxCDD	34.35	1.206	NO	2.4294e4	9.7694e5	2.500	8.3	6.49	0.918	0.0596
6	6 1 2 3 4 6 7 8-HpCDD	37.86	1.061	NO	1.6826e4	7.5534e5	2.500	7.4	5.55	0.923	0.0512
7	7 OCDD	40.90	0.882	NO	3.8449e4	1.4586e6	5.000	8.2	6.28	0.975	0.0610
8	8 2 3 7 8-TCDF	24.62	0.738	NO	6.2418e3	1.8711e6	3.500	9.9	6.54	0.802	0.0525
9	9 1 2 3 7 8-PeCDF	29.35	1.486	NO	4.0179e4	1.8624e6	2.500	6.5	6.14	0.907	0.0557
10	10 2 3 4 7 8-PeCDF	30.33	1.486	NO	4.1811e4	1.6015e6	2.500	9.7	7.47	0.952	0.0711
11	11 1 2 3 4 7 8-HxCDF	33.10	1.157	NO	2.2696e4	1.0335e6	2.500	6.4	5.01	0.862	0.0432
12	12 1 2 3 6 7 8-HxCDF	33.23	1.192	NO	2.6729e4	1.1618e6	2.500	7.5	5.55	0.841	0.0467
13	13 2 3 4 6 7 8-HxCDF	33.81	1.205	NO	2.5496e4	1.0642e6	2.500	6.7	5.93	0.696	0.0533
14	14 1 2 3 7 8 9-HxCDF	34.71	1.177	NO	2.1541e4	9.1113e5	2.500	10.2	6.18	0.858	0.0530
15	15 1 2 3 4 6 7 8-HpCDF	36.47	0.866	NO	1.7941e4	7.8154e5	2.500	7.9	6.36	0.851	0.0459
16	16 1 2 3 4 7 8 9-HpCDF	38.45	0.972	NO	1.4685e4	5.6286e5	2.500	6.4	4.99	0.980	0.0489
17	17 OCDF	41.98	0.870	NO	3.4975e4	1.5901e6	5.000	9.2	5.85	0.806	0.0471



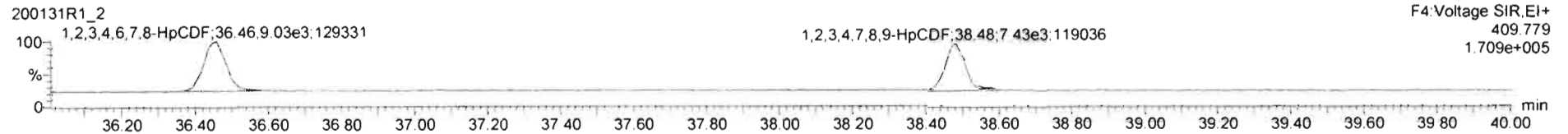
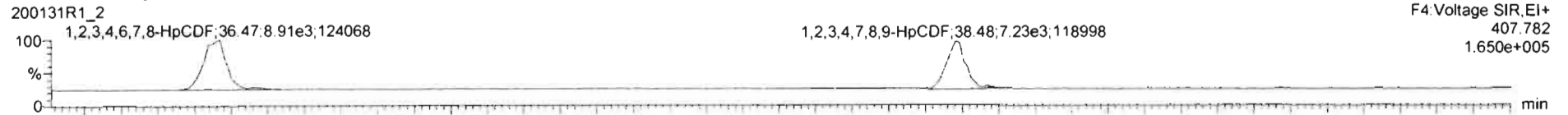
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

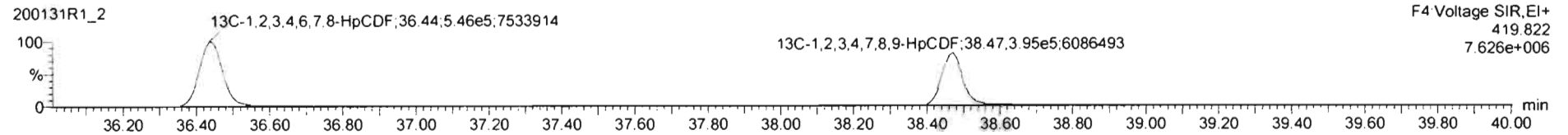
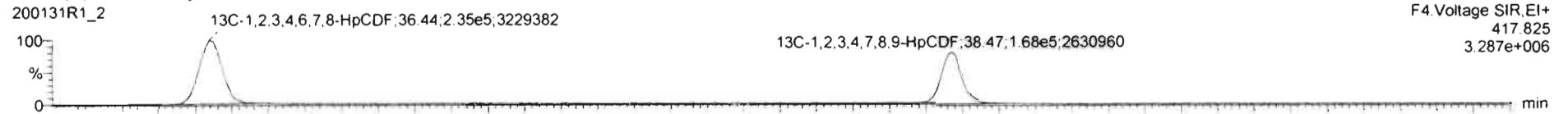
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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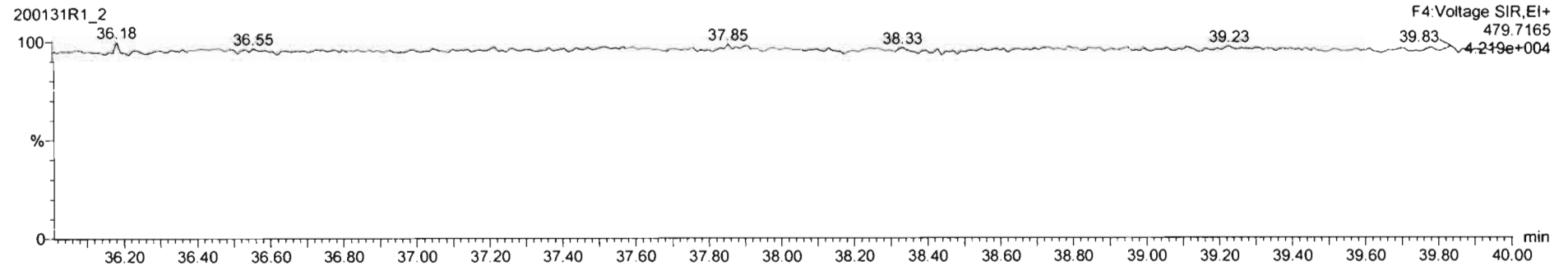
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

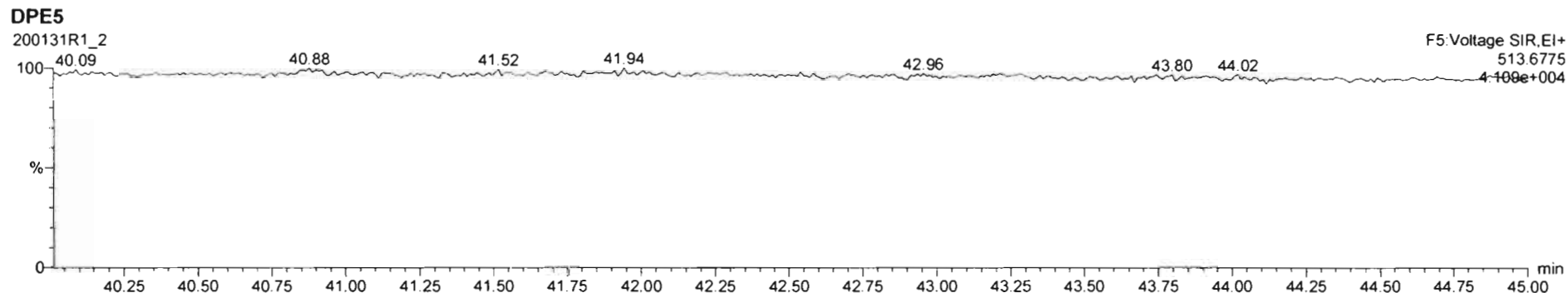
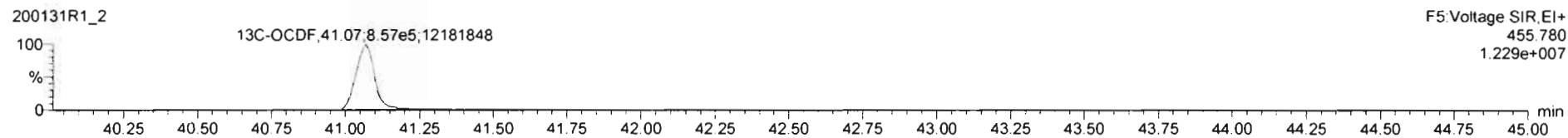
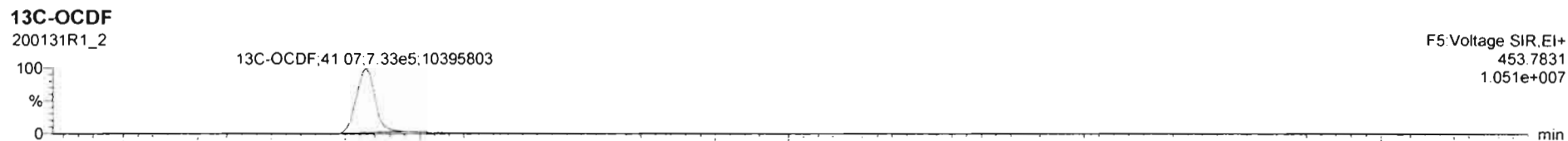
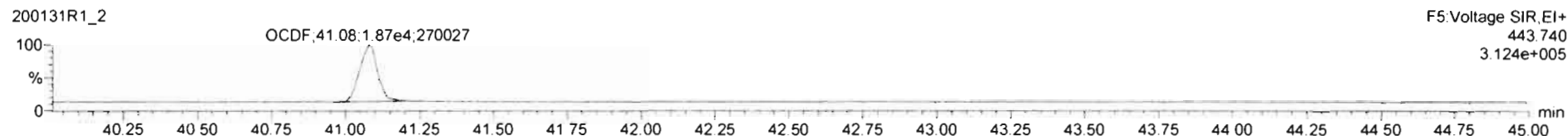
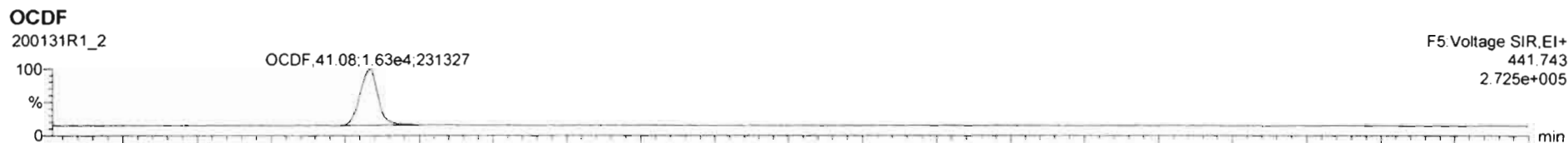


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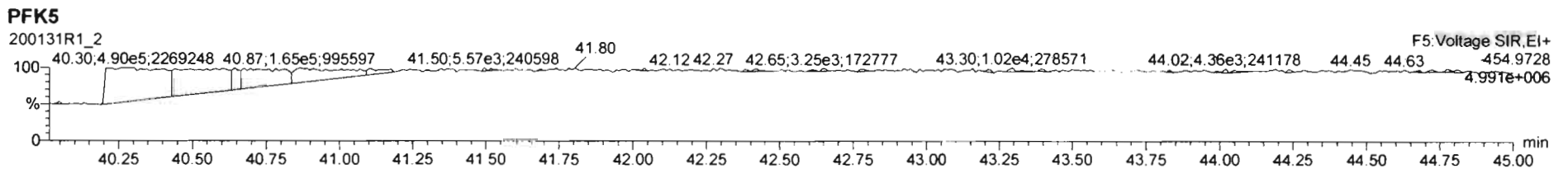
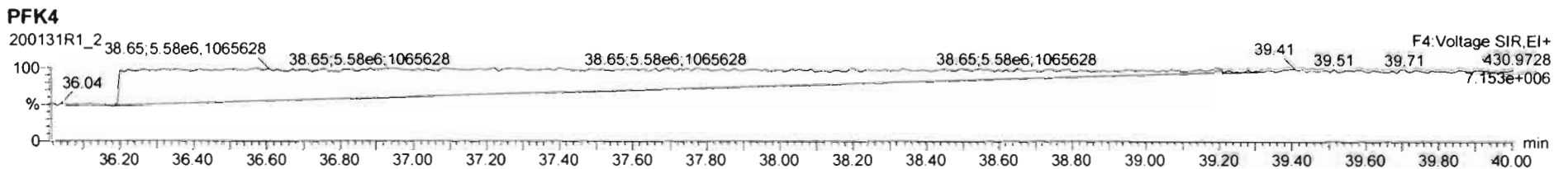
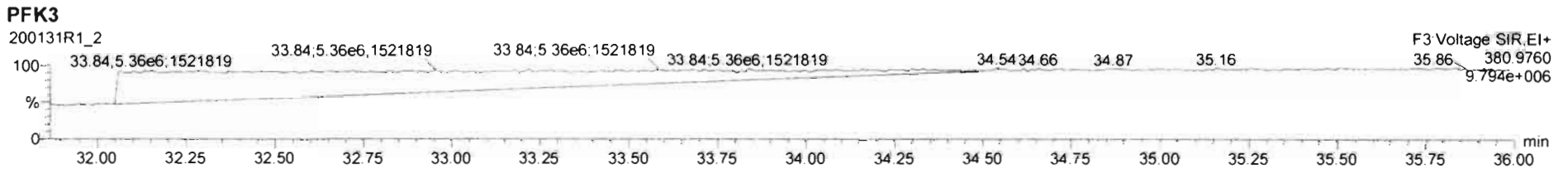
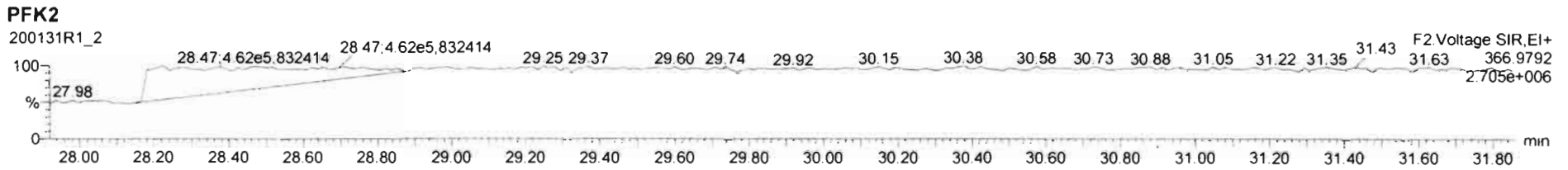
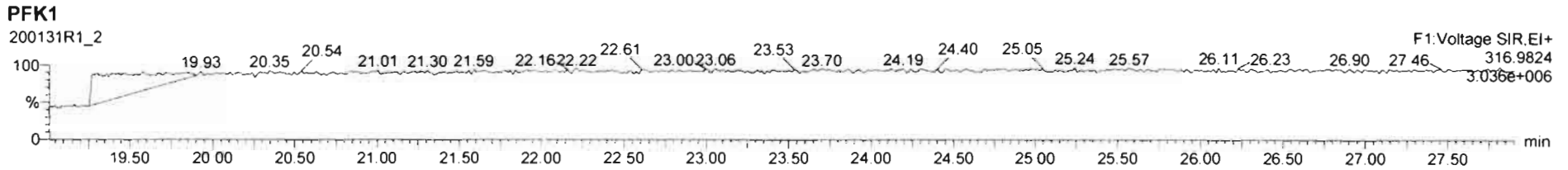


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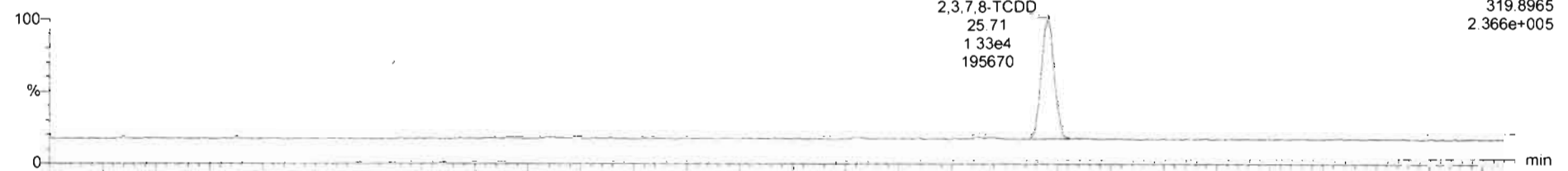
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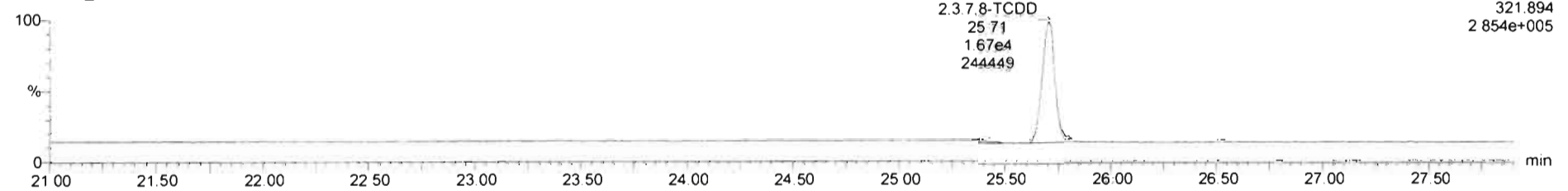
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2,3,7,8-TCDD

200131R1_3

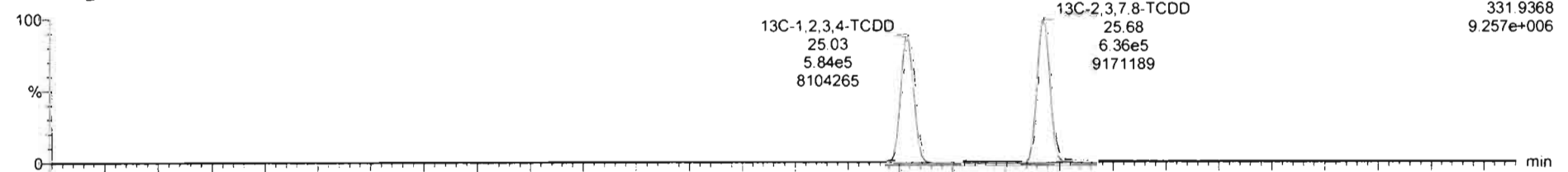


200131R1_3

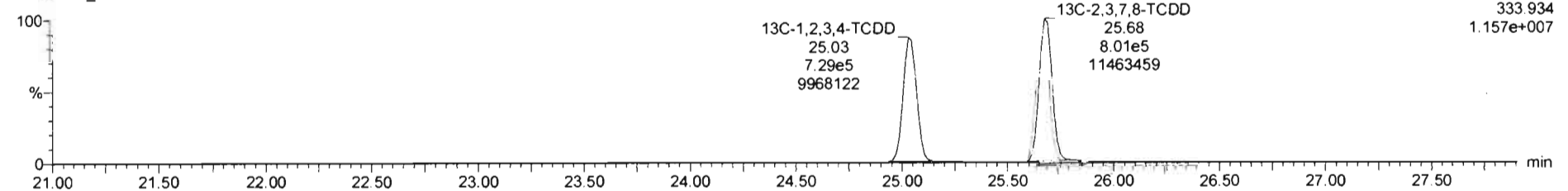


13C-2,3,7,8-TCDD

200131R1_3



200131R1_3



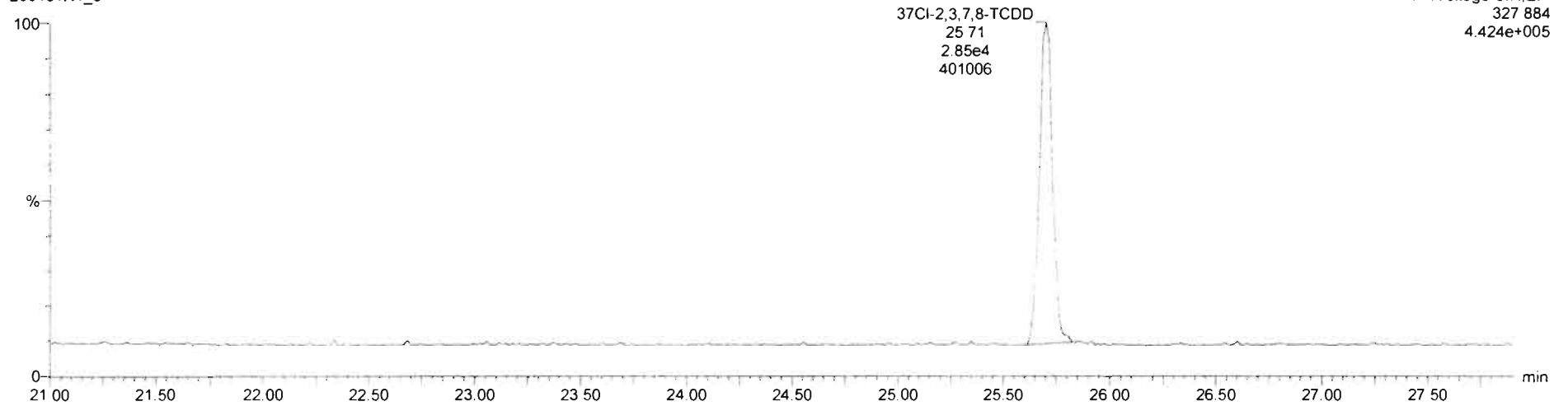
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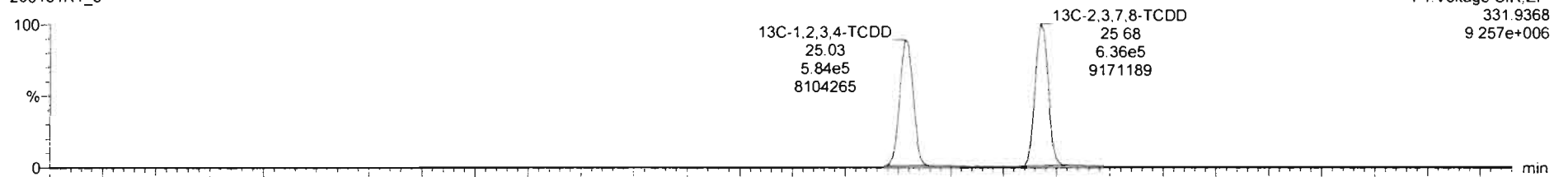
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200131R1_3

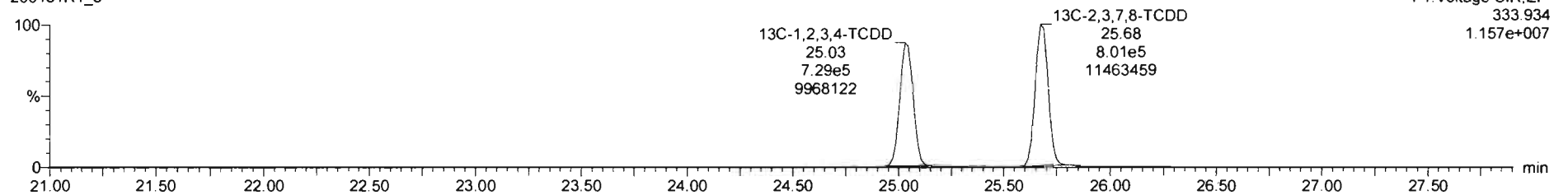


13C-1,2,3,4-TCDD

200131R1_3



200131R1_3



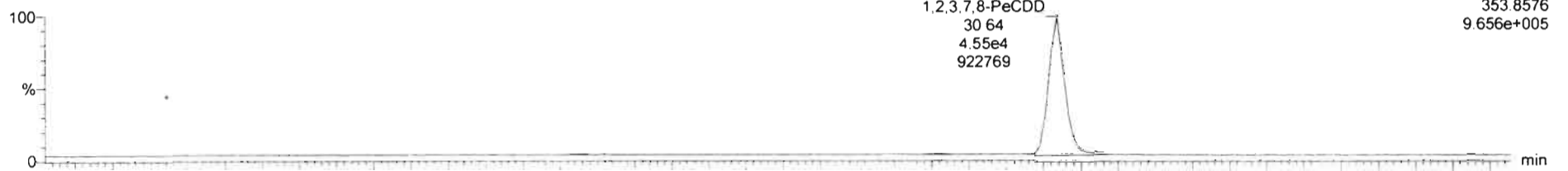
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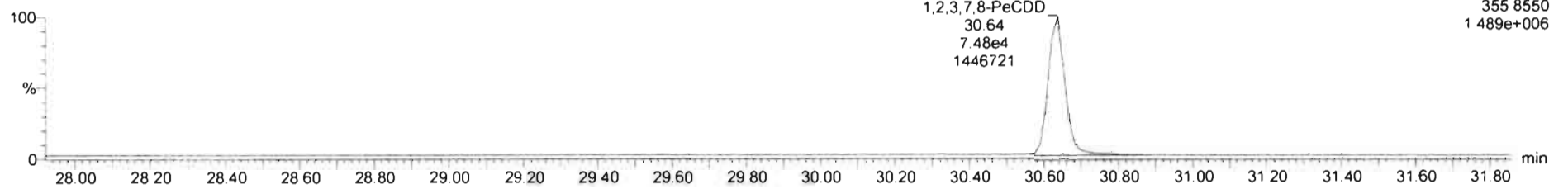
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1,2,3,7,8-PeCDD

200131R1_3

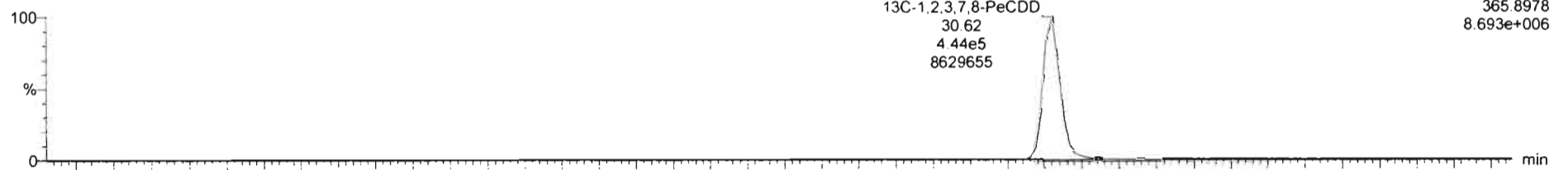


200131R1_3

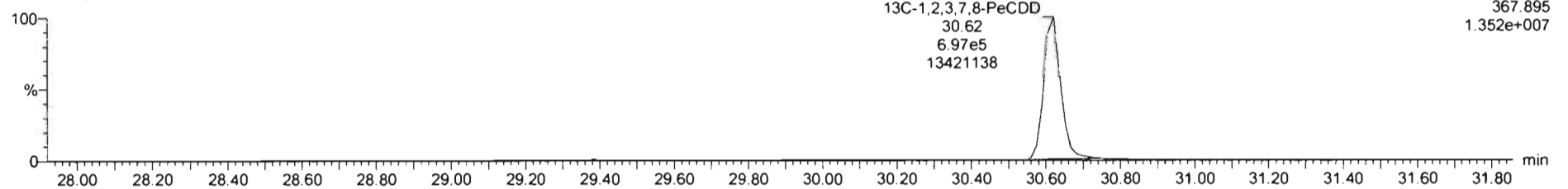


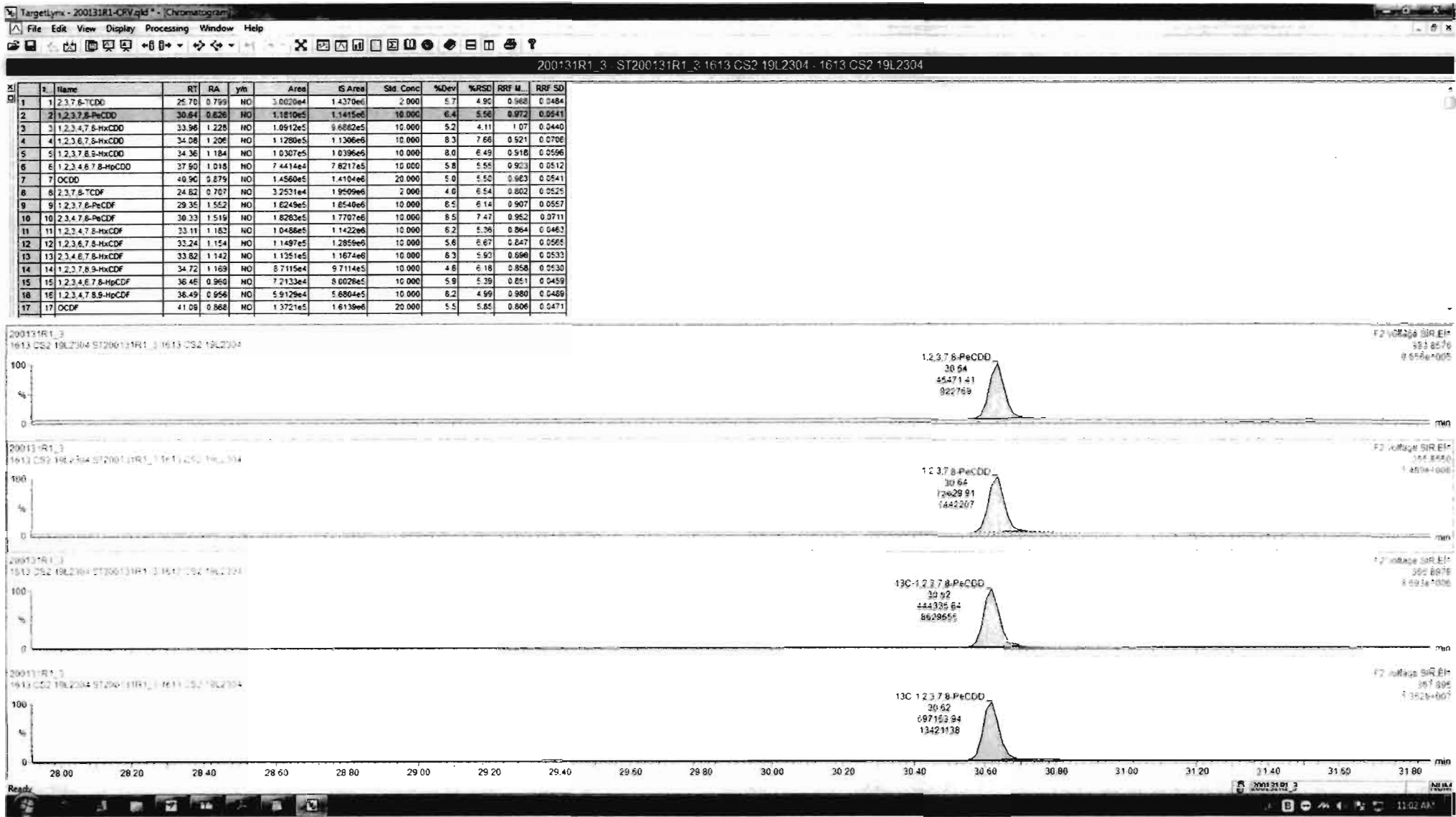
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200131R1_3



200131R1_3





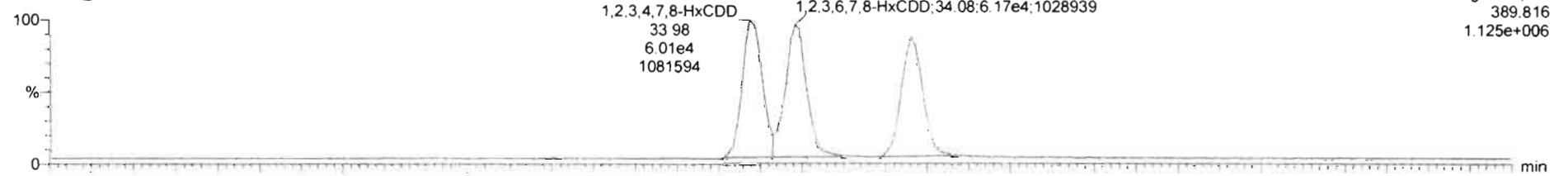
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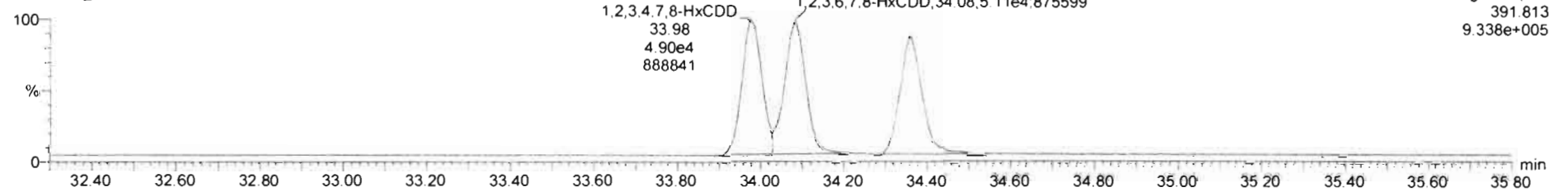
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1,2,3,4,7,8-HxCDD

200131R1_3

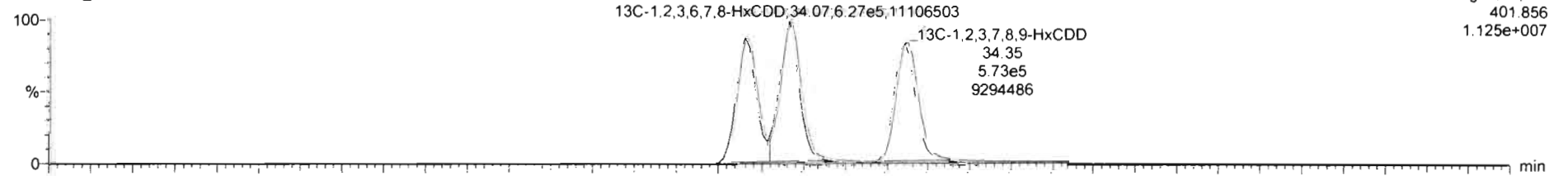


200131R1_3

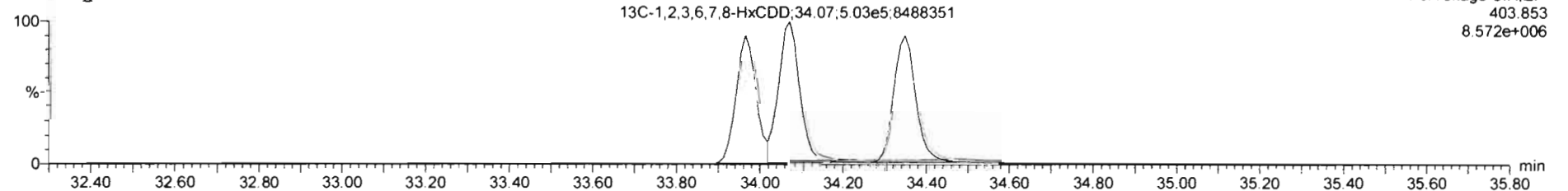


13C-1,2,3,4,7,8-HxCDD

200131R1_3



200131R1_3



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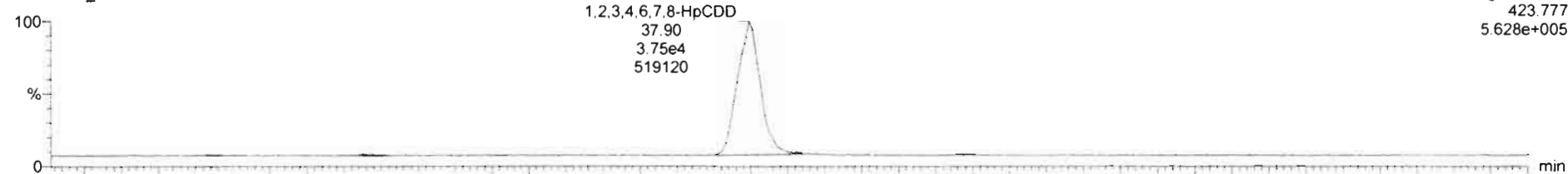
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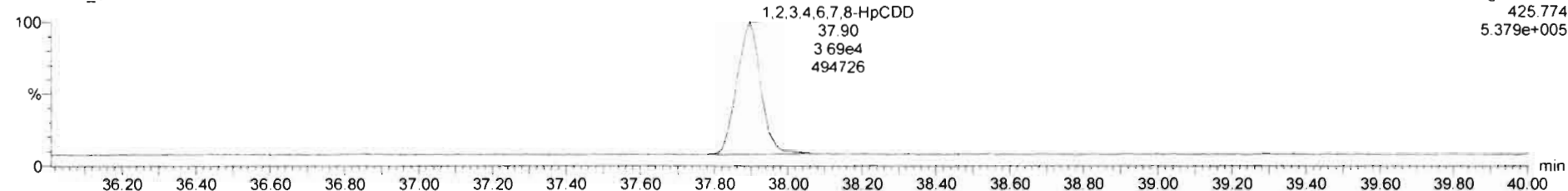
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1,2,3,4,6,7,8-HpCDD

200131R1_3

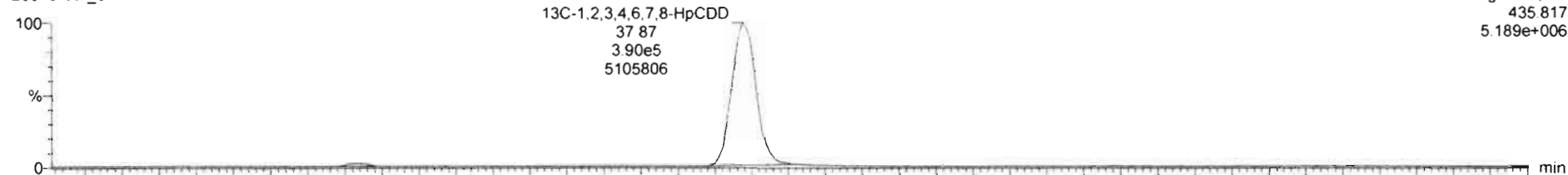


200131R1_3

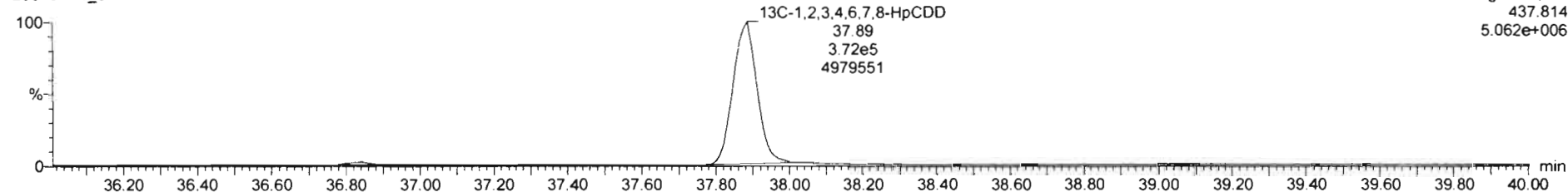


13C-1,2,3,4,6,7,8-HpCDD

200131R1_3



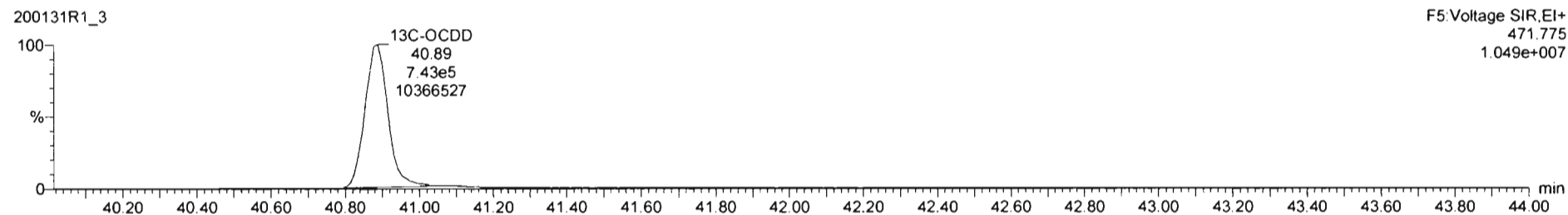
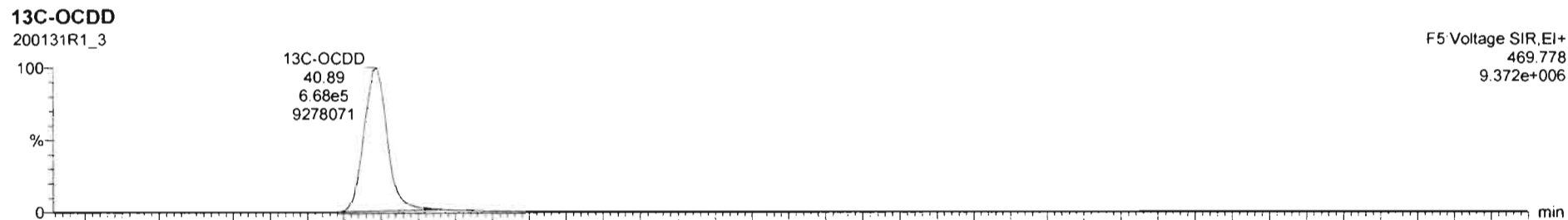
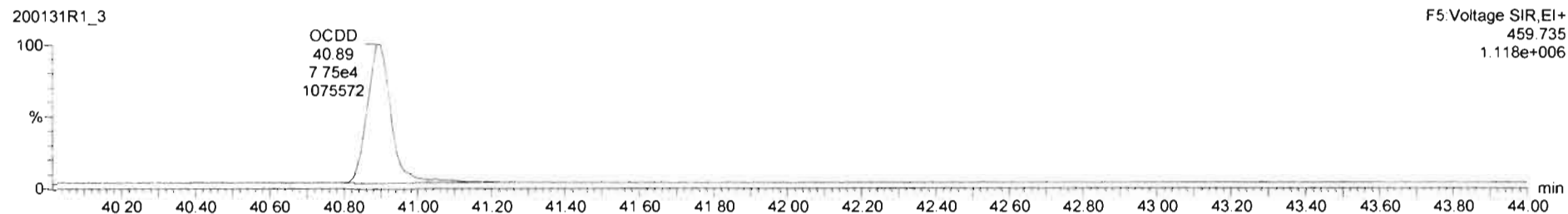
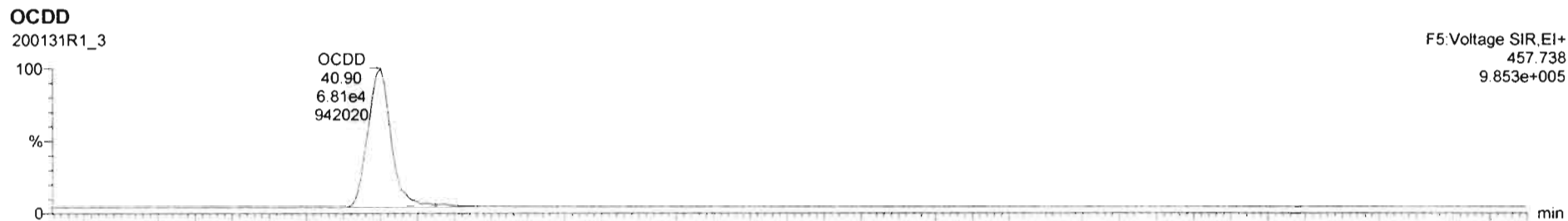
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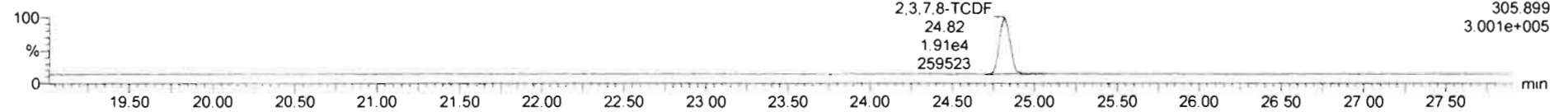
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2,3,7,8-TCDF

200131R1_3

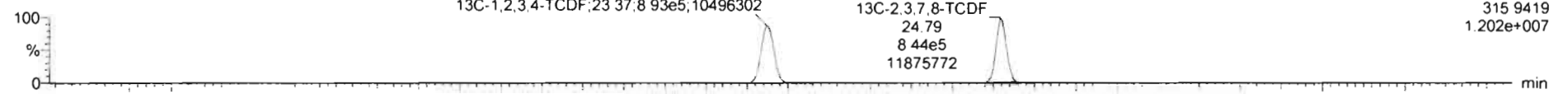


200131R1_3

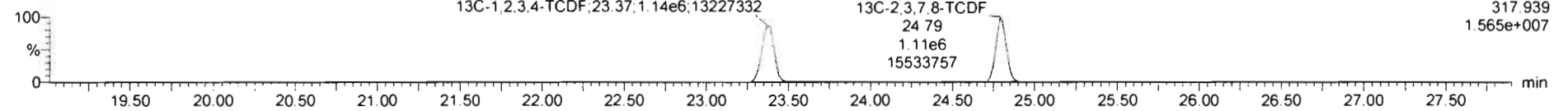


13C-2,3,7,8-TCDF

200131R1_3

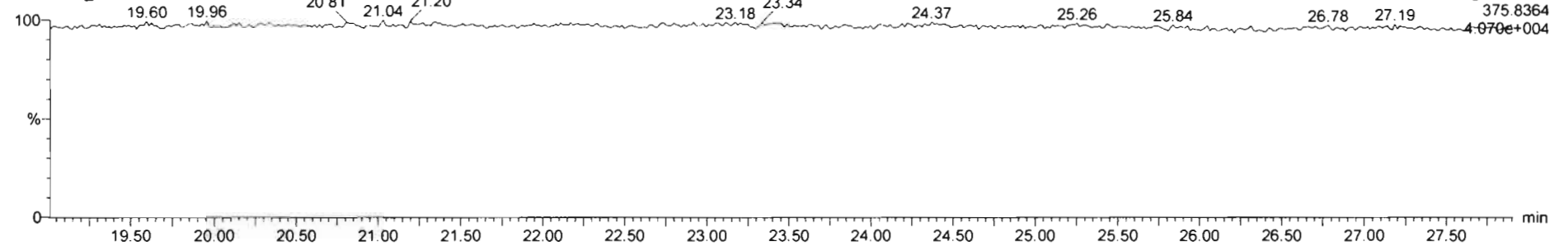


200131R1_3



DPE1

200131R1_3

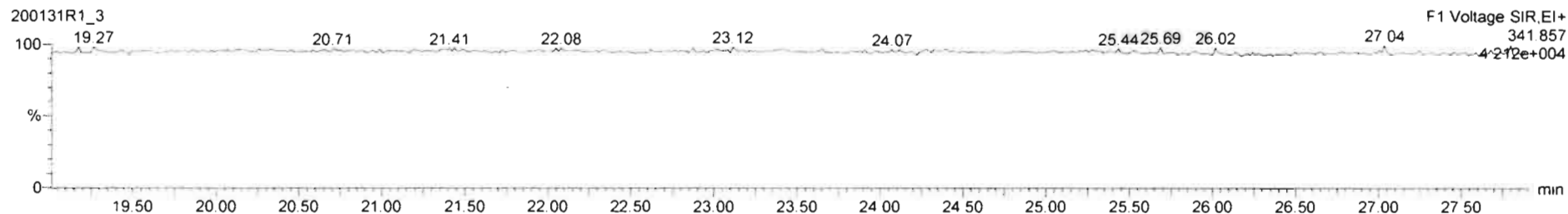
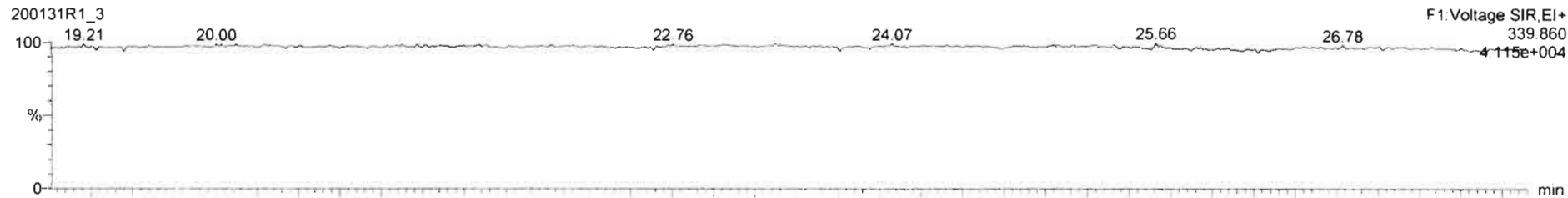


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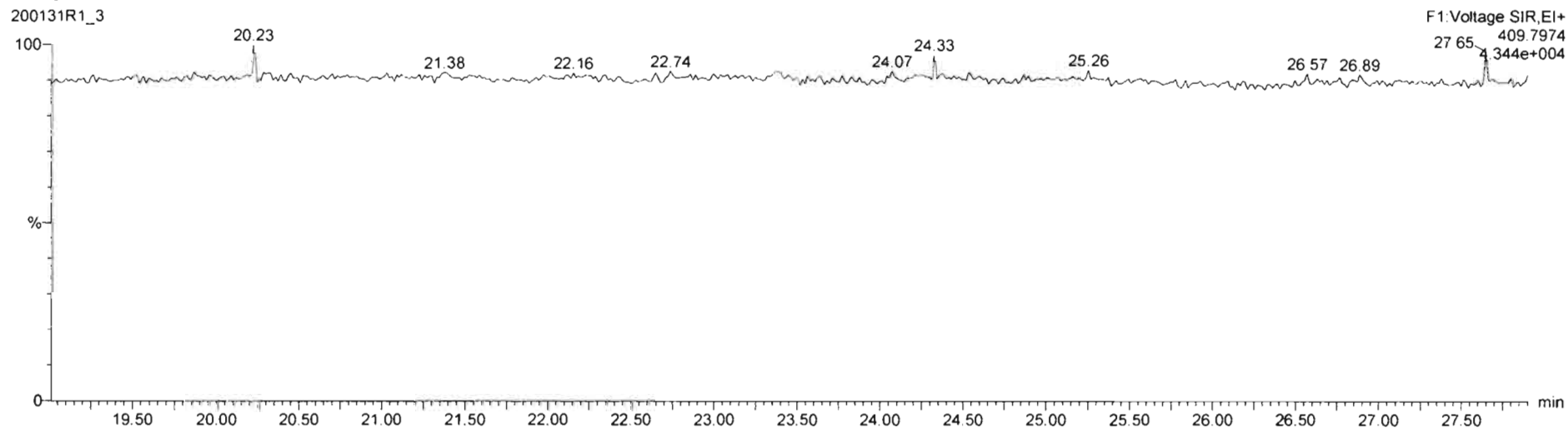
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1st Func. Penta-Furans



DPE6



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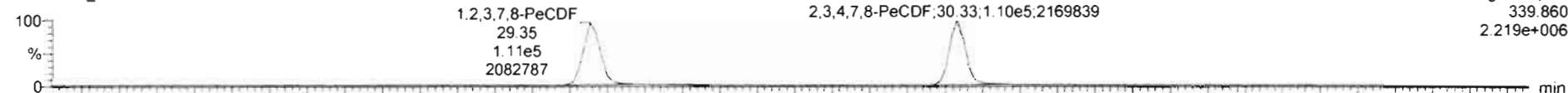
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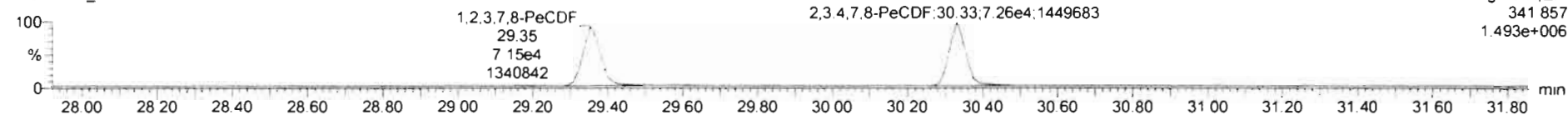
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1,2,3,7,8-PeCDF

200131R1_3

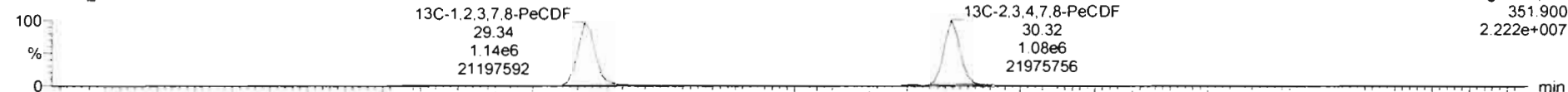


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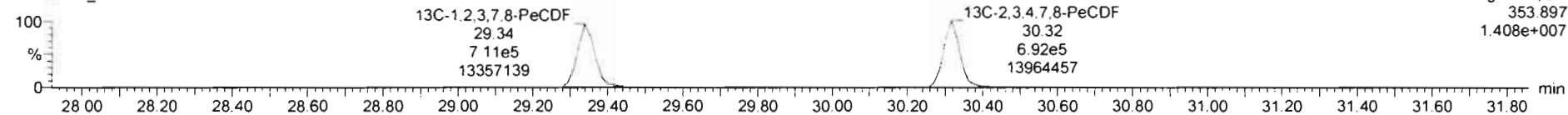


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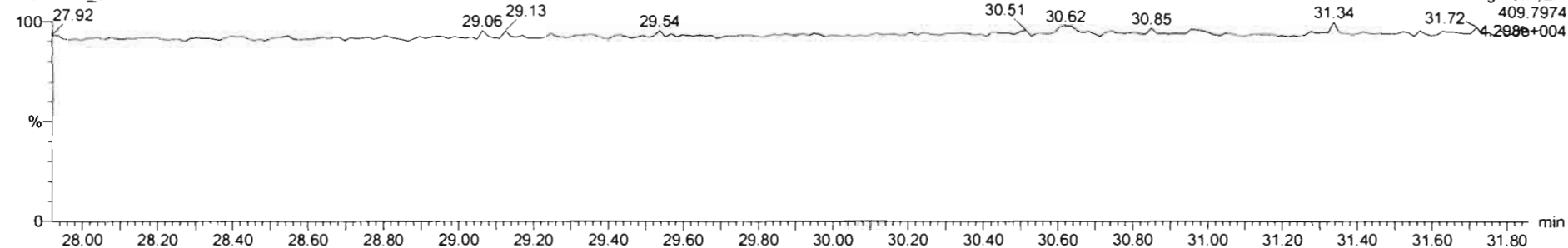


200131R1_3



DPE2

200131R1_3



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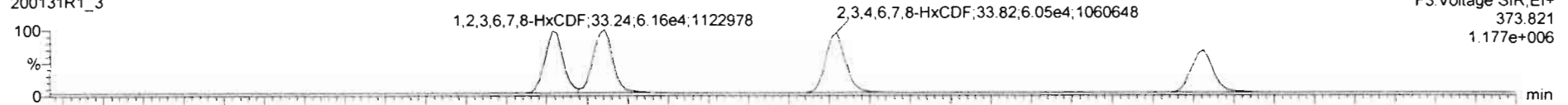
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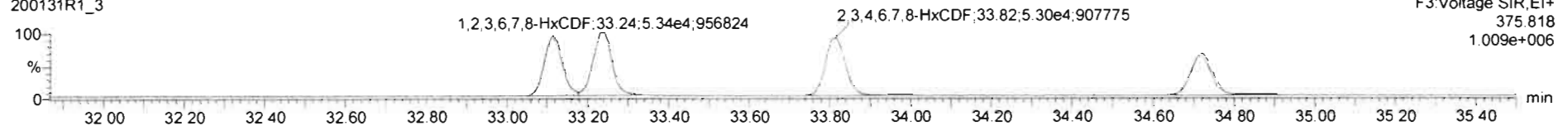
1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
373.821
1.177e+006

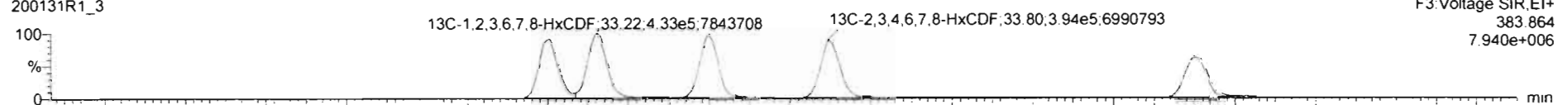
200131R1_3



F3: Voltage SIR, EI+
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1.009e+006

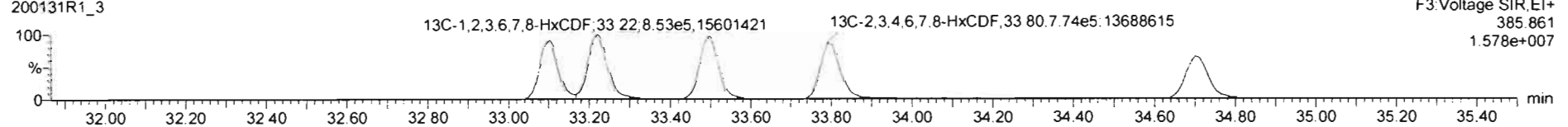
13C-1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
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7.940e+006

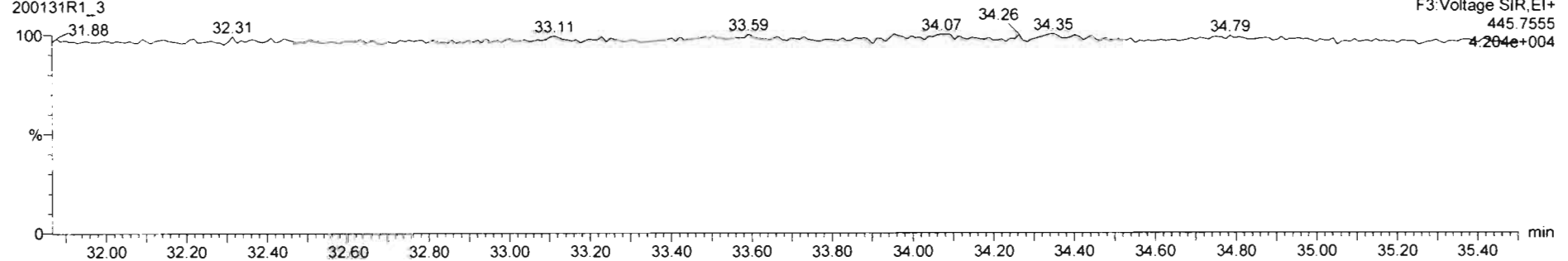
200131R1_3



F3: Voltage SIR, EI+
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1.578e+007

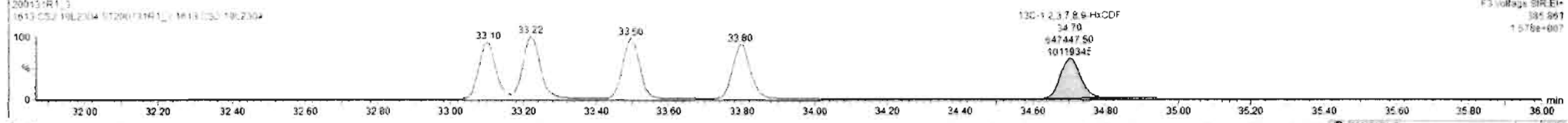
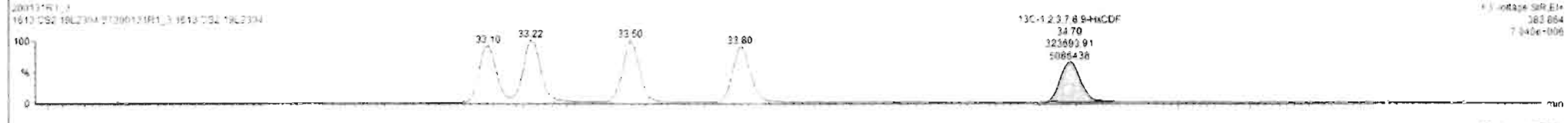
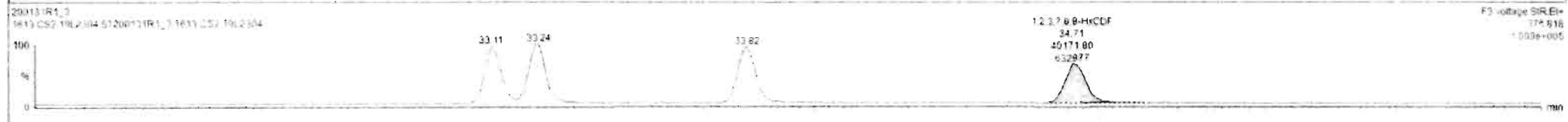
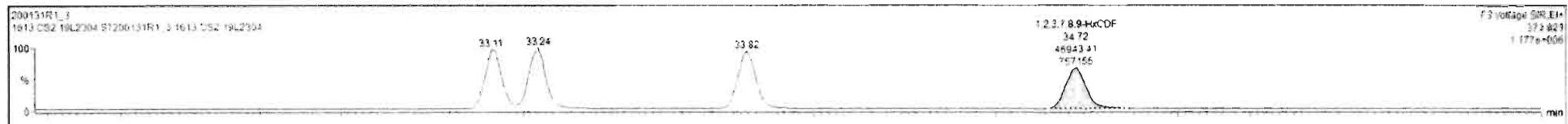
DPE3

200131R1_3



F3: Voltage SIR, EI+
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4.204e+004

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1 2,3,7,8-TCDD	25.70	0.799	NO	3.0620e4	1.4370e6	2.000	5.7	4.90	0.968	0.0484
2	2 1,2,3,7,8-PeCDD	30.64	0.608	NO	1.2029e5	1.1415e6	10.000	6.0	6.03	0.975	0.0588
3	3 1,2,3,4,7,8-HxCDD	33.98	1.228	NO	1.0912e5	9.6882e5	10.000	5.2	4.11	1.07	0.0440
4	4 1,2,3,6,7,8-HxCDD	34.08	1.206	NO	1.1280e5	1.1308e6	10.000	8.3	7.68	0.921	0.0708
5	5 1,2,3,7,8,9-HxCDD	34.36	1.184	NO	1.0307e5	1.0396e6	10.000	8.0	6.46	0.918	0.0596
6	6 1,2,3,4,6,7,8-HpCDD	37.90	1.018	NO	7.4414e4	7.8217e5	10.000	5.8	5.55	0.923	0.0512
7	7 OCDD	40.90	0.879	NO	1.4560e5	1.4104e6	20.000	5.0	5.50	0.983	0.0541
8	8 2,3,7,8-TCDF	24.82	0.707	NO	3.2531e4	1.9509e6	2.000	4.0	6.54	0.802	0.0525
9	9 1,2,3,7,8-PeCDF	29.35	1.552	NO	1.6249e5	1.8540e6	10.000	6.5	6.14	0.907	0.0557
10	10 2,3,4,7,8-PeCDF	30.33	1.519	NO	1.6283e5	1.7707e6	10.000	8.5	7.47	0.952	0.0711
11	11 1,2,3,4,7,8-HxCDF	33.11	1.183	NO	1.0486e5	1.1422e6	10.000	6.2	5.36	0.864	0.0463
12	12 1,2,3,6,7,8-HxCDF	33.24	1.154	NO	1.1497e5	1.2659e6	10.000	5.6	6.67	0.647	0.0565
13	13 2,3,4,6,7,8-HxCDF	33.82	1.142	NO	1.1351e5	1.1674e6	10.000	6.3	5.93	0.896	0.0533
14	14 1,2,3,7,8,9-HxCDF	34.72	1.169	NO	8.7115e4	9.7114e5	10.000	4.6	6.18	0.850	0.0530
15	15 1,2,3,4,6,7,8-HpCDF	36.46	0.960	NO	7.2133e4	8.0026e5	10.000	5.9	5.39	0.851	0.0459
16	16 1,2,3,4,7,8,9-HxCDF	36.49	0.956	NO	5.9129e4	5.8604e5	10.000	6.2	4.99	0.980	0.0469
17	17 OCDF	41.06	0.868	NO	1.3721e5	1.6139e6	20.000	5.5	5.82	0.806	0.0471



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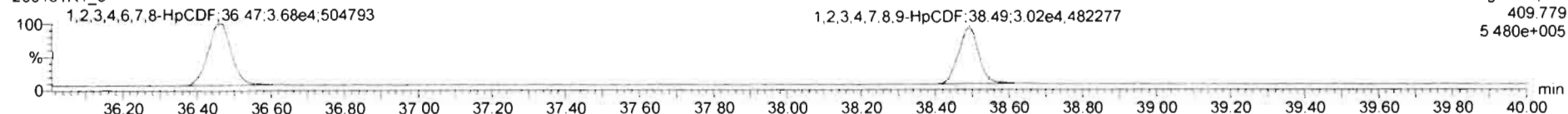
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1,2,3,4,6,7,8-HpCDF

200131R1_3

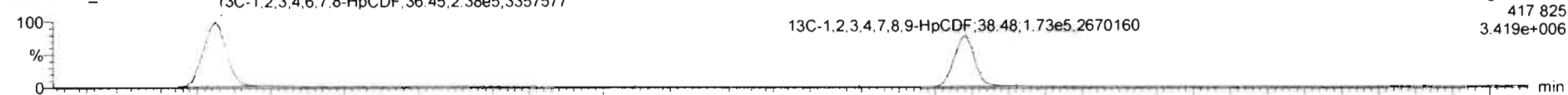


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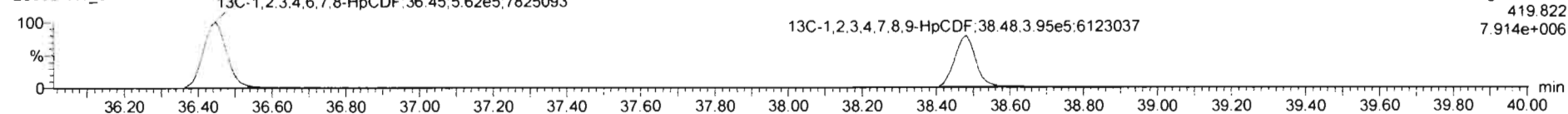


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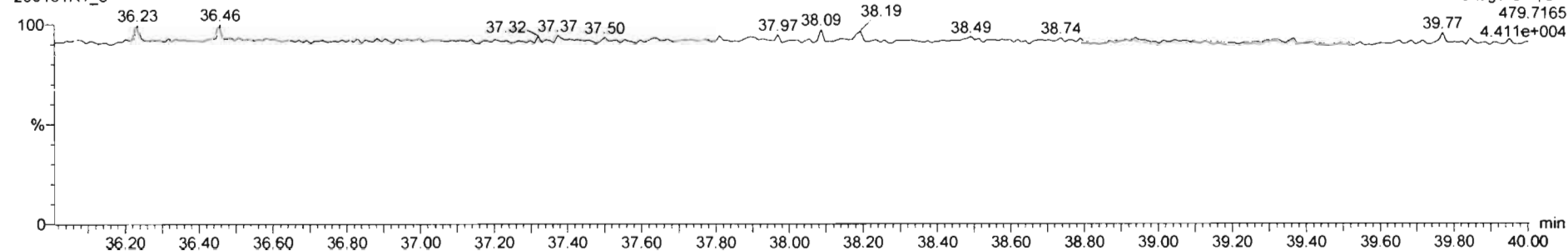


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DPE4

200131R1_3

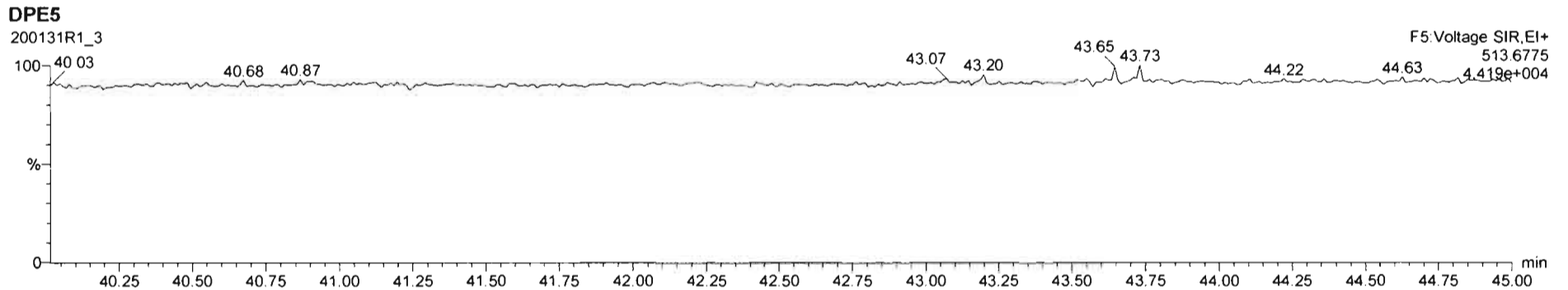
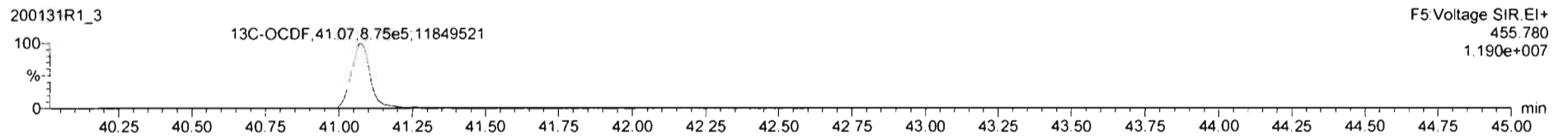
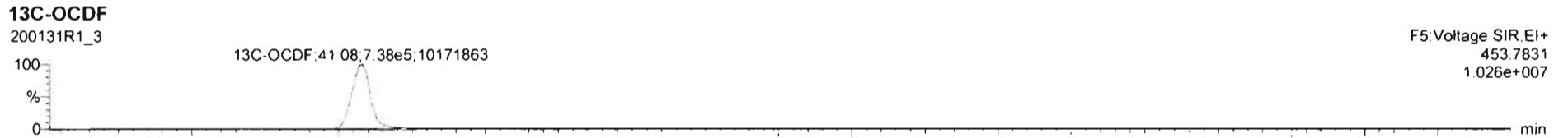
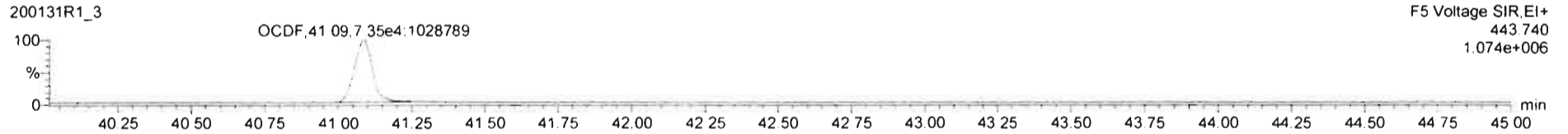
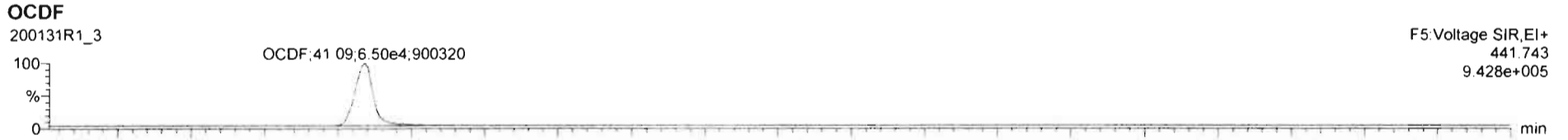


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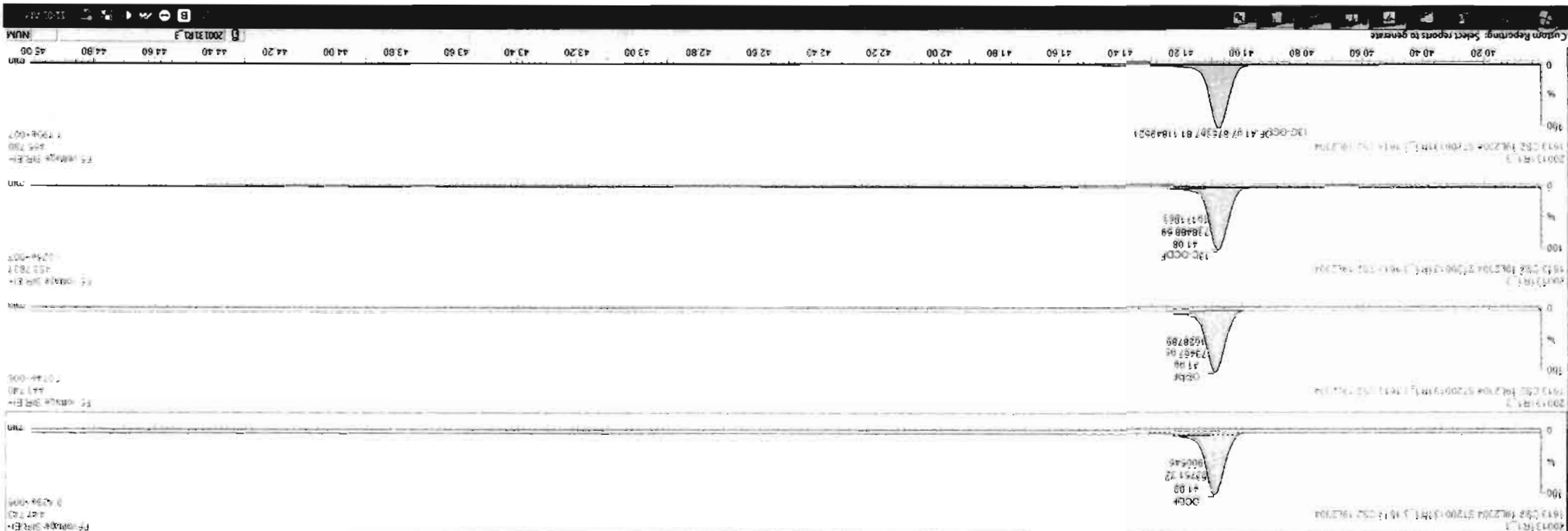
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ID	Name	RT	PA	Yth	Area	SI	Cond	%RSD	RFR H	RFR SD
1	1 2 2 7 E-GDC	25.70	0.799	NO	2.00204	1.427468	2.90	1.90	0.968	0.464
2	2 2 2 7 B-MHCDO	36.64	0.855	NO	1.20295	1.141545	10.00	4.83	0.975	0.463
3	3 2 2 7 B-MHCDO	33.94	1.228	NO	1.09124	5.68825	10.00	5.2	1.07	0.449
4	4 2 2 7 B-MHCDO	34.08	1.205	NO	1.12804	1.13068	10.00	8.3	0.921	0.708
5	5 2 2 7 B-MHCDO	34.38	1.184	NO	1.03075	1.0366	10.00	6.0	0.918	0.936
6	6 2 2 7 E-GCM	24.80	0.679	NO	1.55045	1.41046	20.00	5.0	0.983	0.541
7	7 2 2 7 B-MHCDO	37.50	1.018	NO	7.44144	2.62743	10.00	5.5	0.932	0.872
8	8 2 2 7 E-GCM	24.80	0.707	NO	1.25314	1.95096	2.000	4.0	0.807	0.925
9	9 2 2 7 B-MHCDO	29.20	1.552	NO	1.62485	1.62485	10.00	6.5	0.907	0.653
10	10 2 2 7 B-MHCDO	20.20	1.219	NO	1.62505	1.77076	10.00	6.5	0.952	0.711
11	11 2 2 7 B-MHCDO	22.10	1.119	NO	1.62665	1.14226	10.00	6.2	0.984	0.463
12	12 2 2 7 B-MHCDO	32.24	1.154	NO	1.14975	1.28585	10.00	5.6	0.847	0.663
13	13 2 2 7 B-MHCDO	22.80	1.142	NO	1.12514	1.16746	10.00	6.3	0.886	0.633
14	14 2 2 7 B-MHCDO	34.20	1.147	NO	6.65974	5.71144	10.00	6.0	0.860	0.635
15	15 2 2 7 E B-MHCDO	36.46	0.903	NO	7.21244	6.02845	10.00	5.9	0.851	0.443
16	16 2 2 7 B-MHCDO	36.46	0.956	NO	5.91294	5.66443	10.00	6.7	0.900	0.445
17	17 2 2 7 B-MHCDO	41.08	0.868	NO	1.37214	1.61366	20.00	5.5	0.806	0.611



2003131
1913 CS2 19L2304 1613 CS2 19L2304 1613 CS2 19L2304 1613 CS2 19L2304

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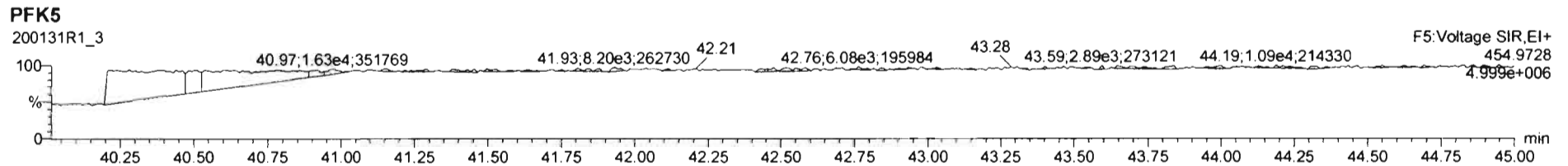
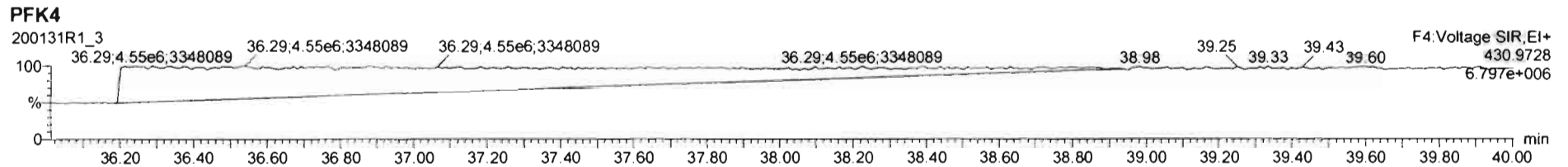
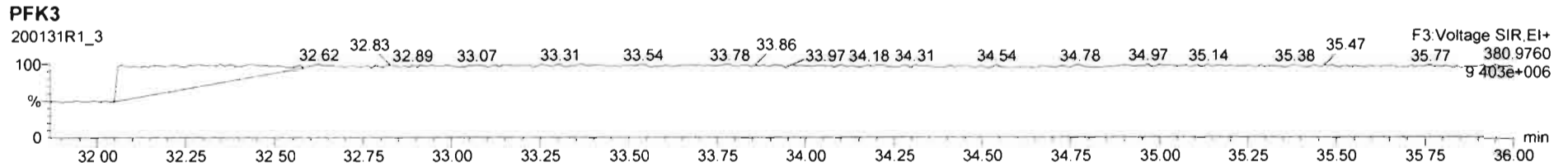
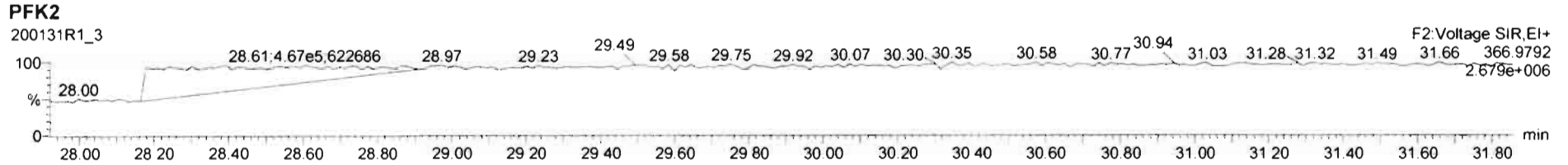
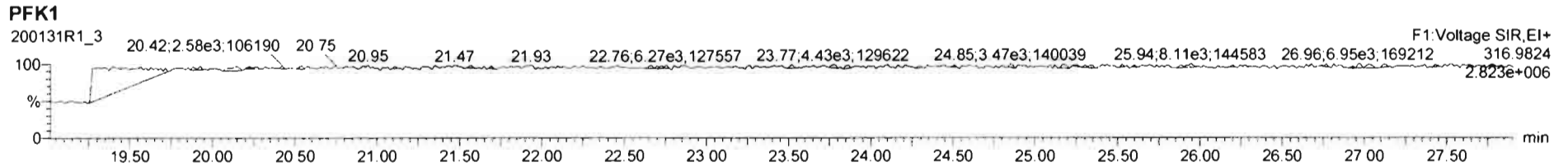


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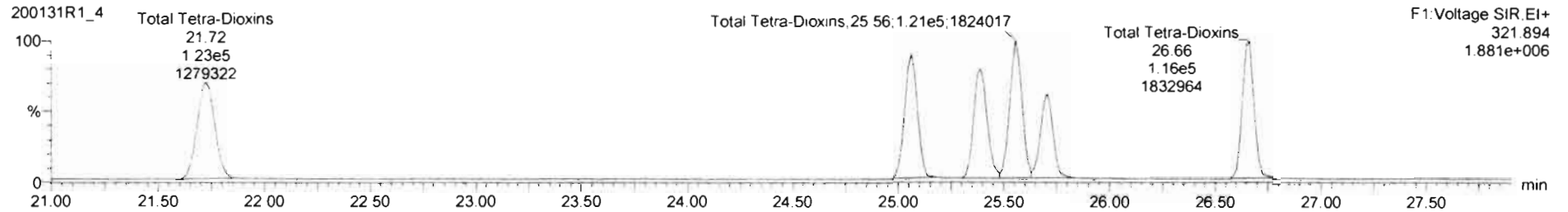
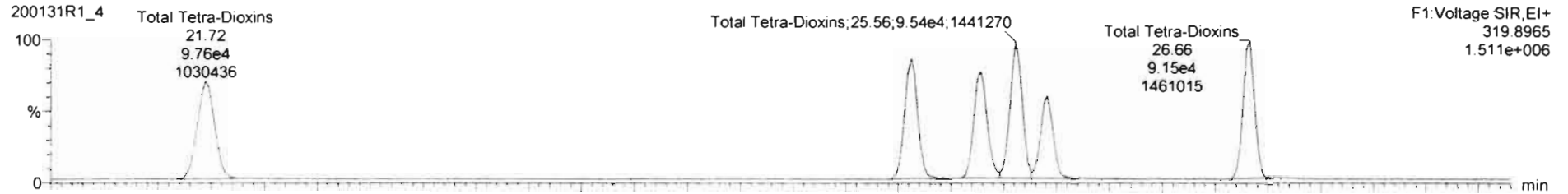


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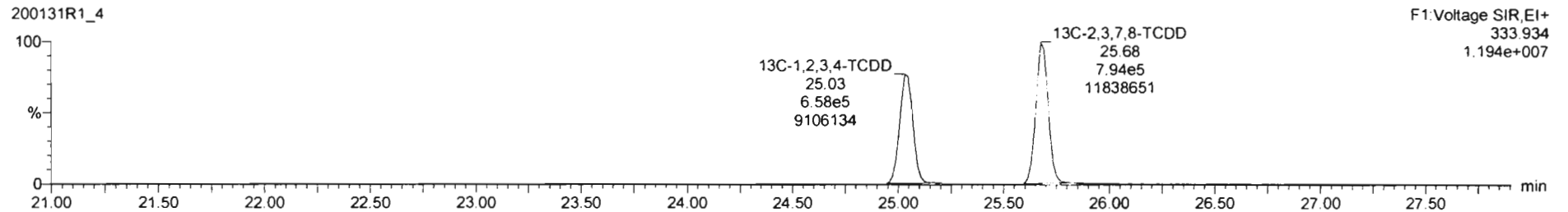
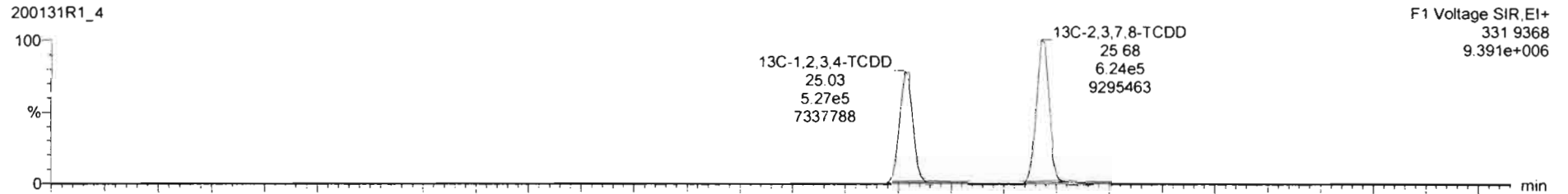
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD



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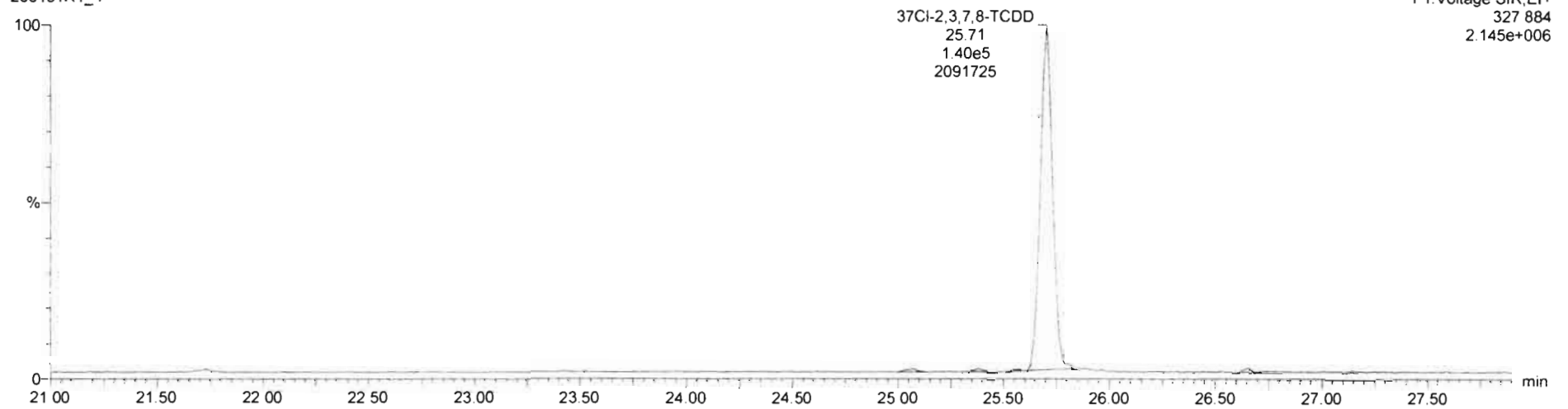
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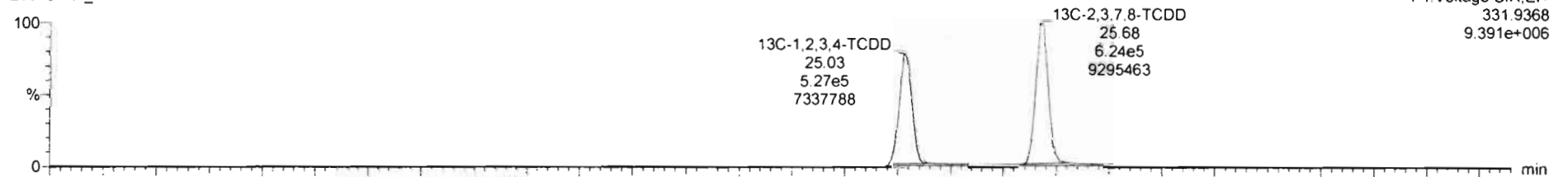
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200131R1_4

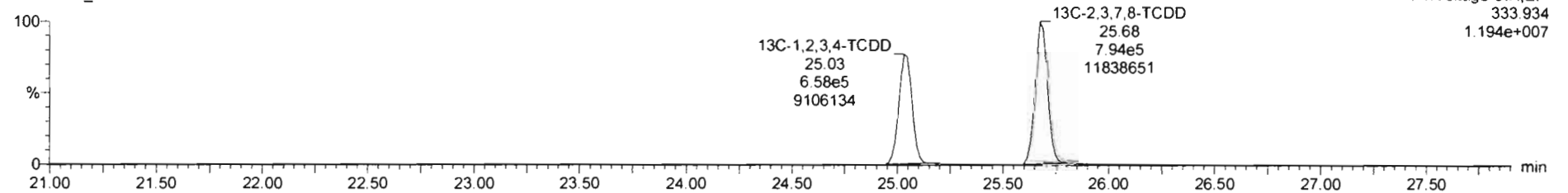


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200131R1_4



200131R1_4

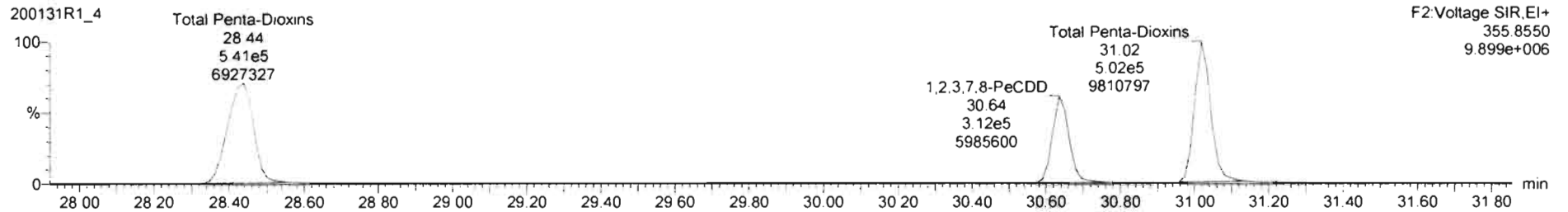
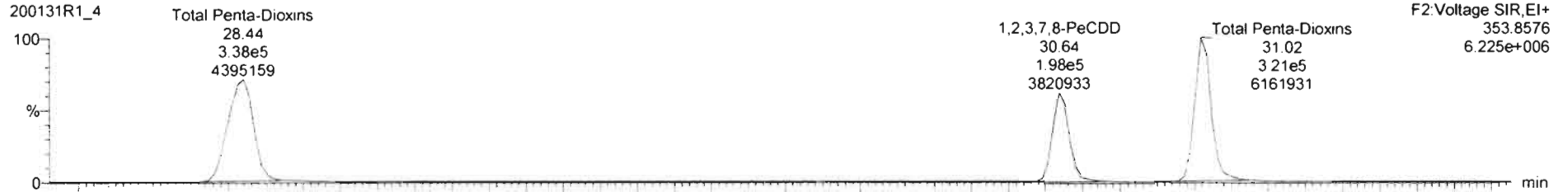


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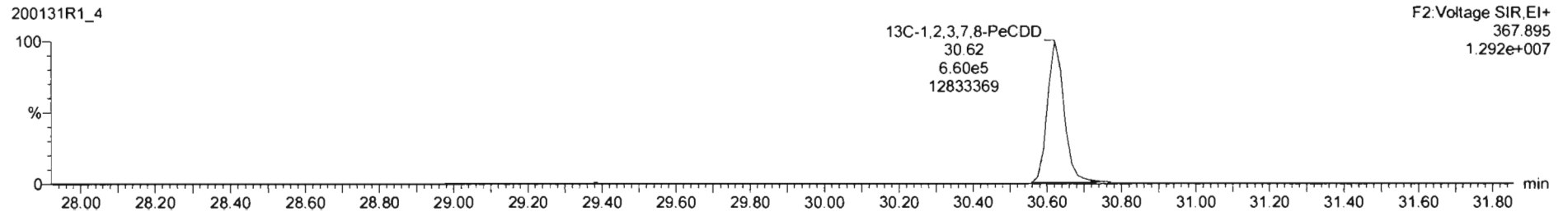
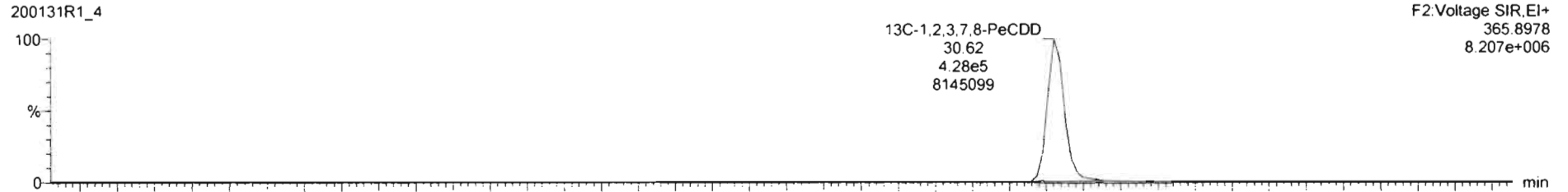
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD

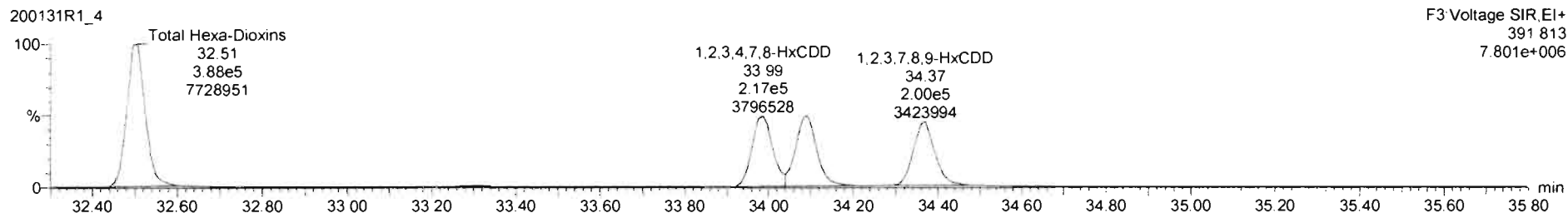
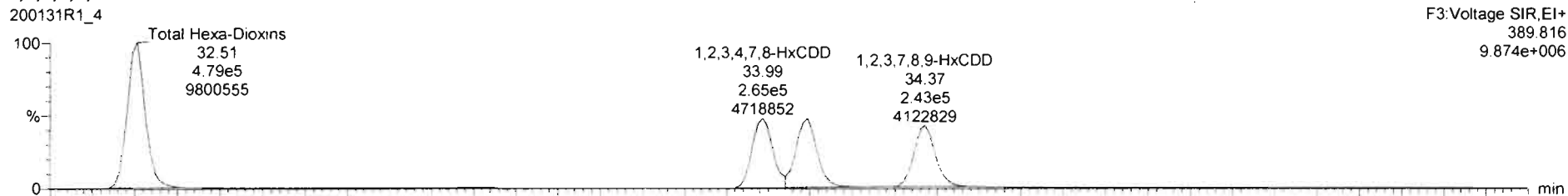


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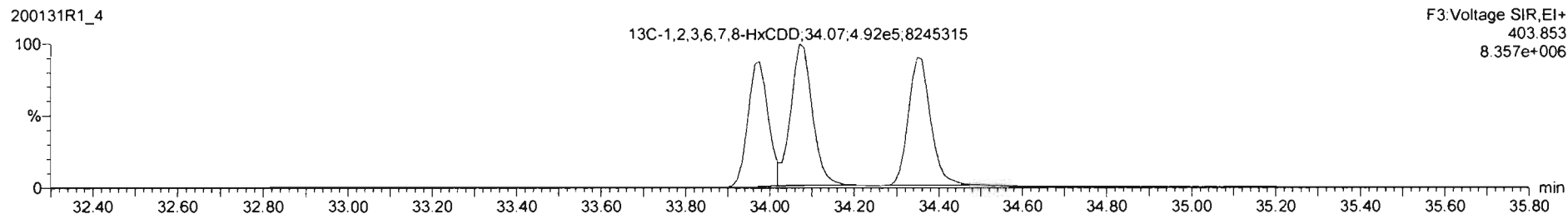
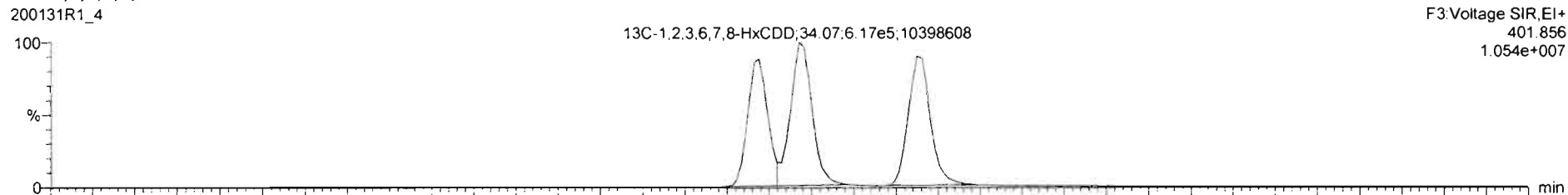
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1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



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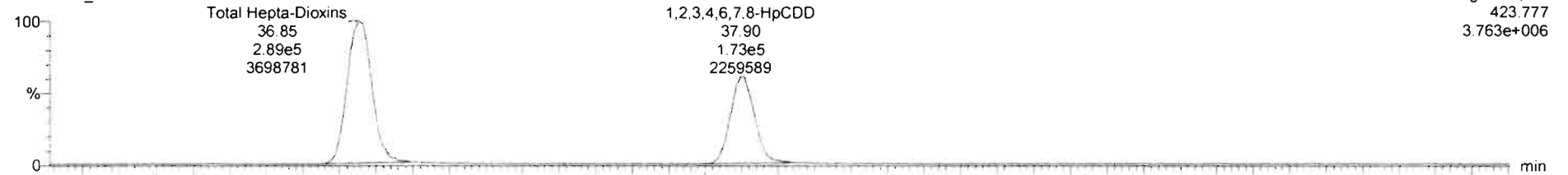
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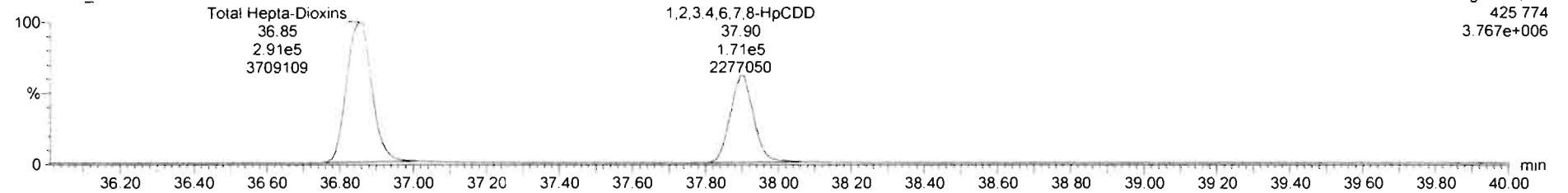
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1,2,3,4,6,7,8-HpCDD

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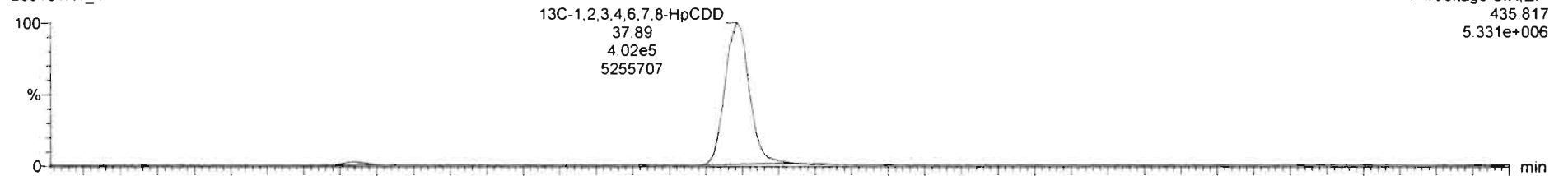


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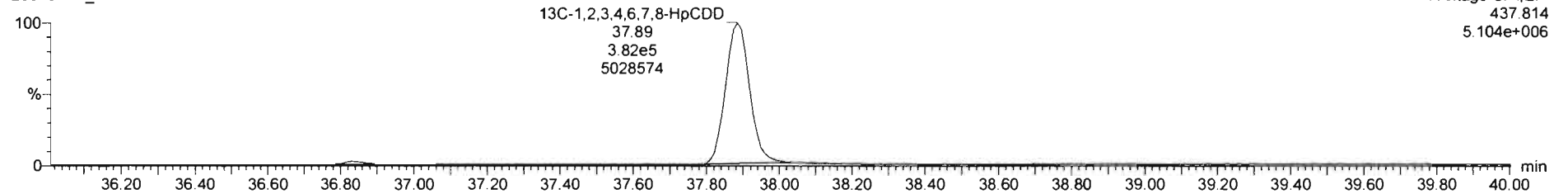


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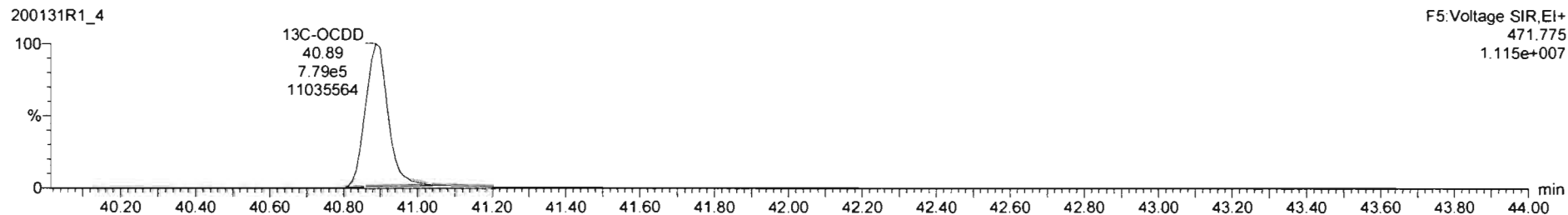
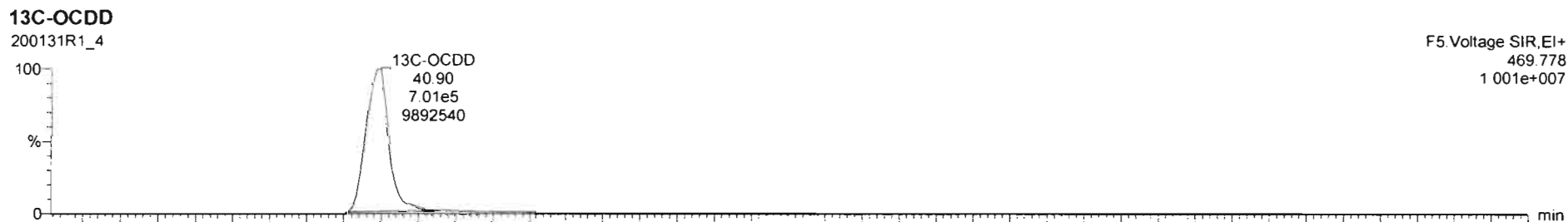
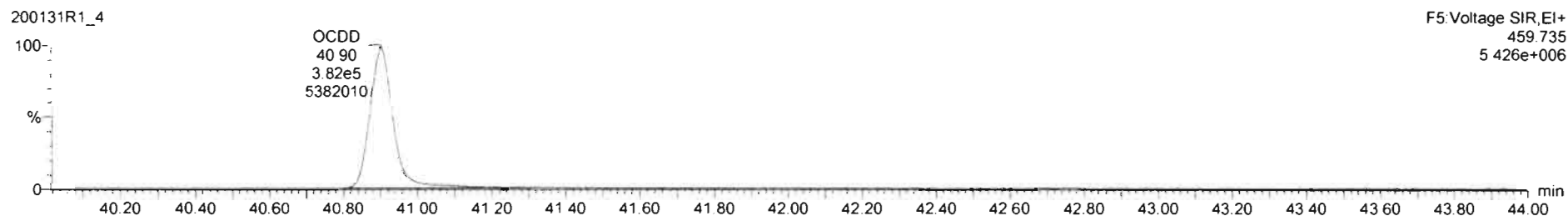
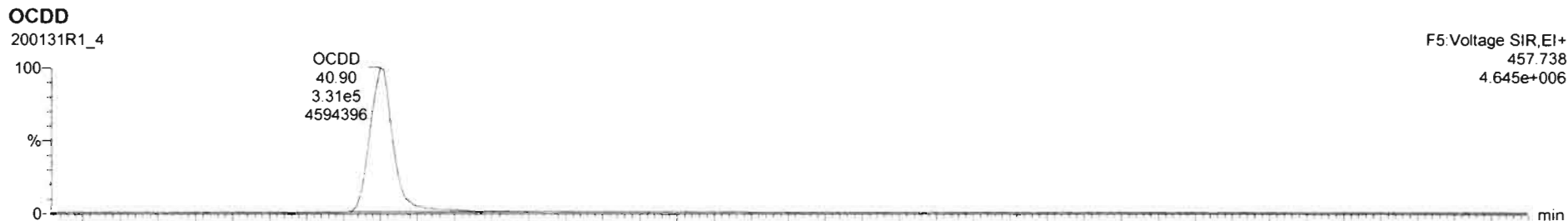
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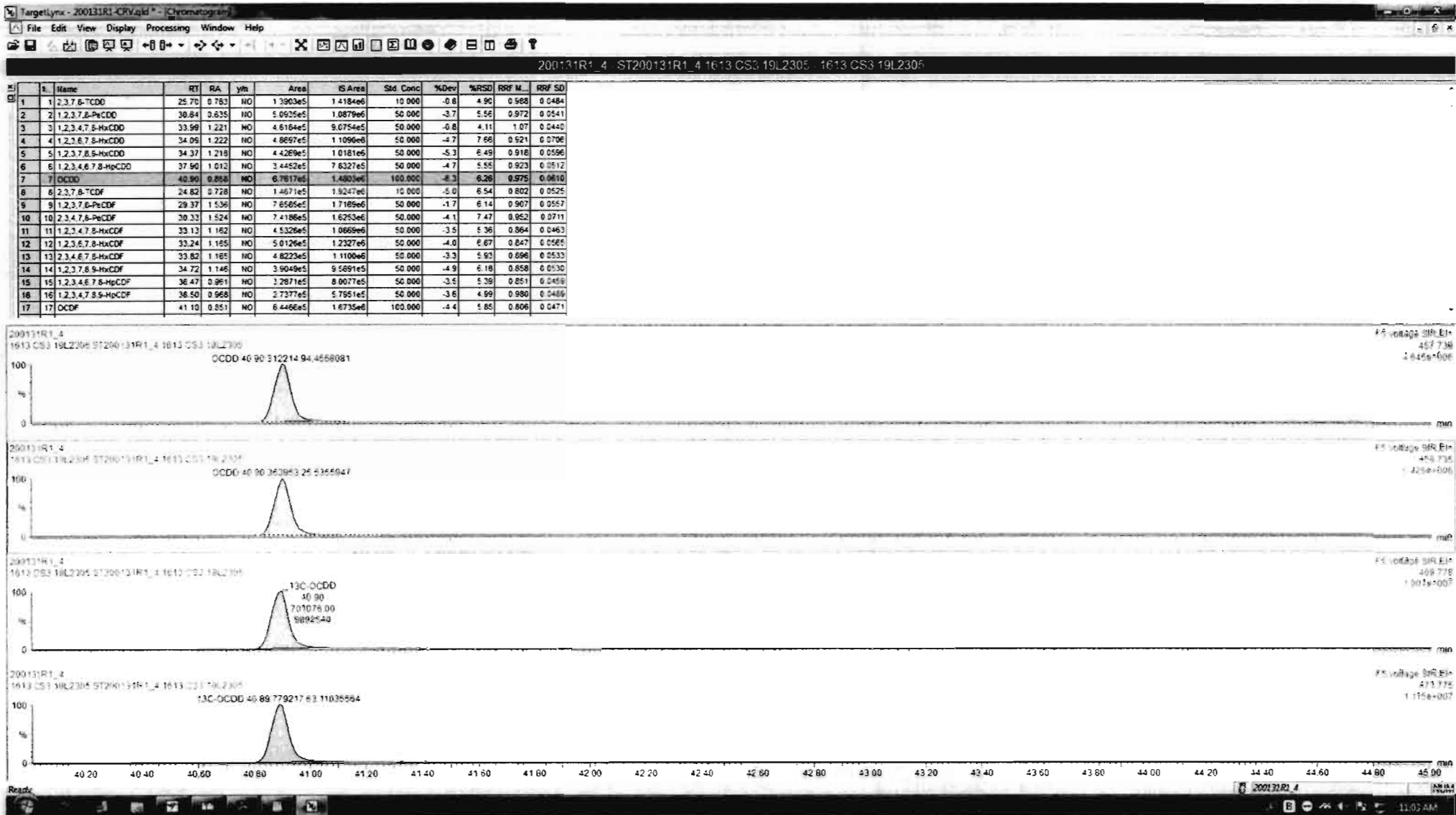


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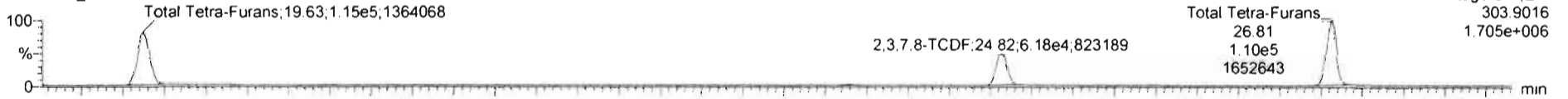
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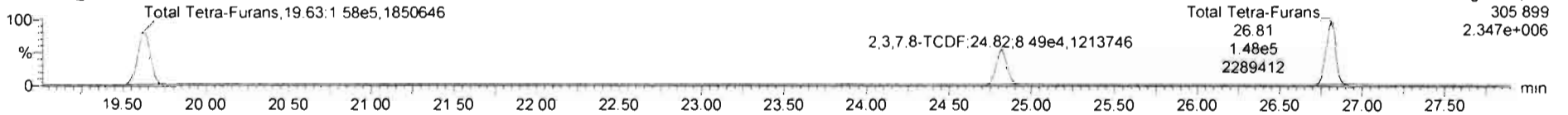
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2,3,7,8-TCDF

200131R1_4

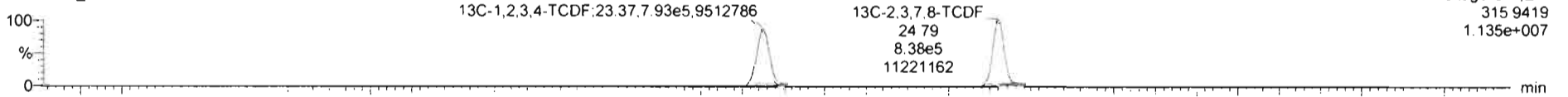


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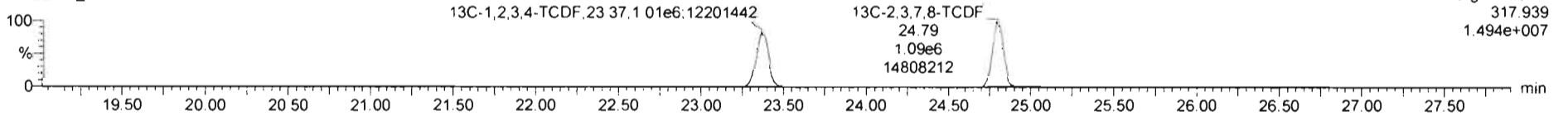


13C-2,3,7,8-TCDF

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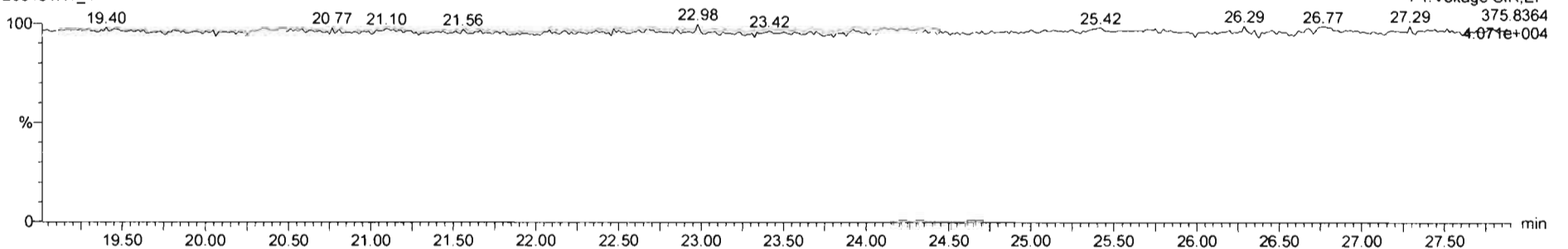


200131R1_4



DPE1

200131R1_4



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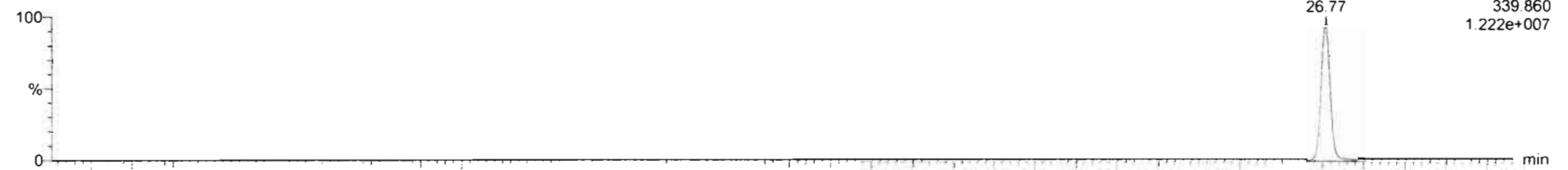
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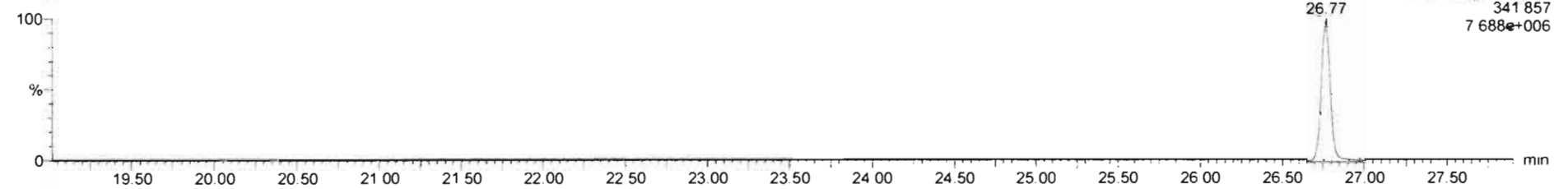
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200131R1_4

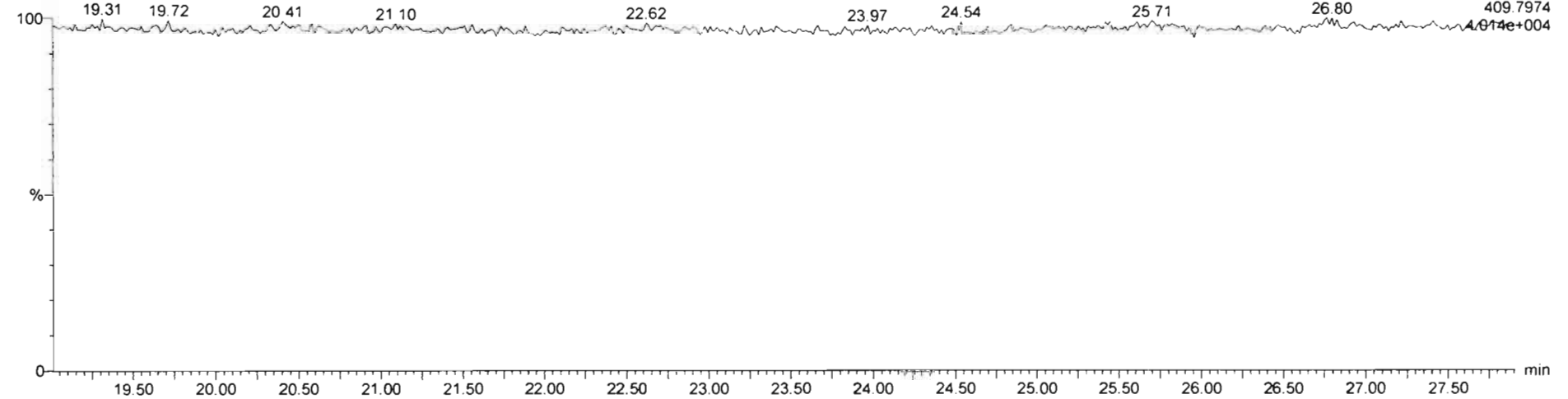


200131R1_4



DPE6

200131R1_4



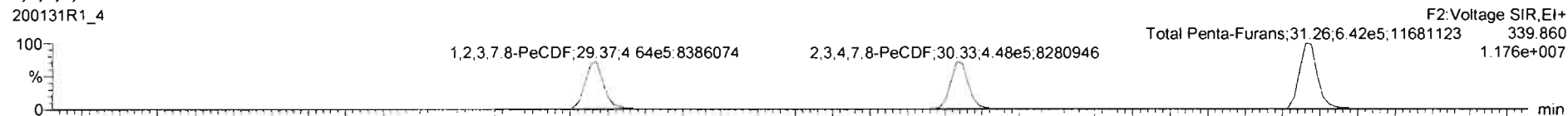
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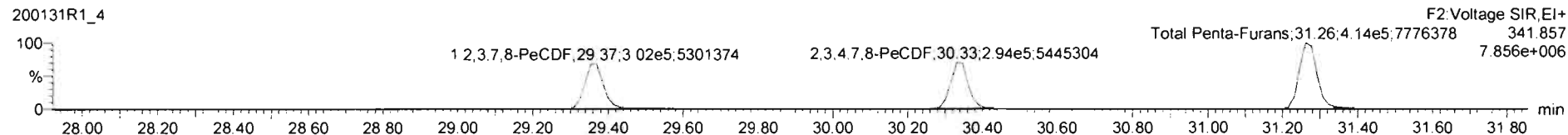
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1,2,3,7,8-PeCDF

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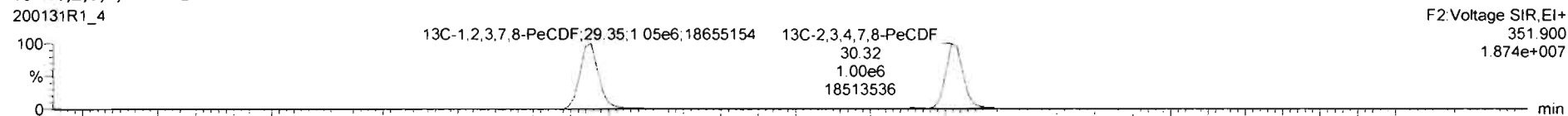


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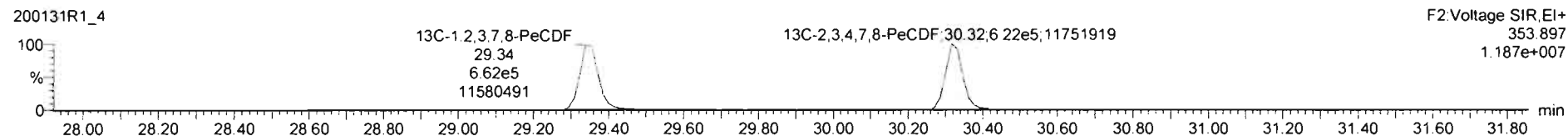


13C-1,2,3,7,8-PeCDF

200131R1_4

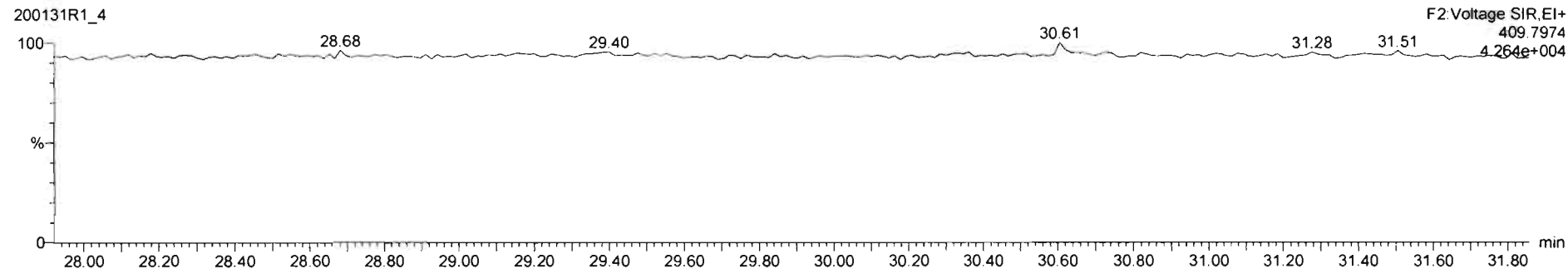


200131R1_4



DPE2

200131R1_4



Dataset: Untitled

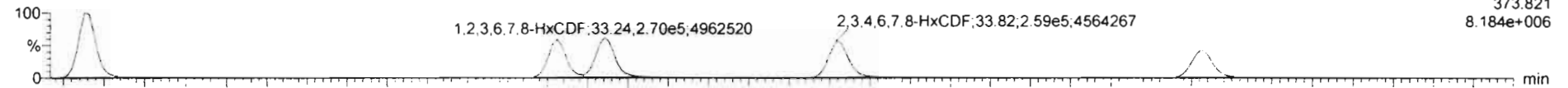
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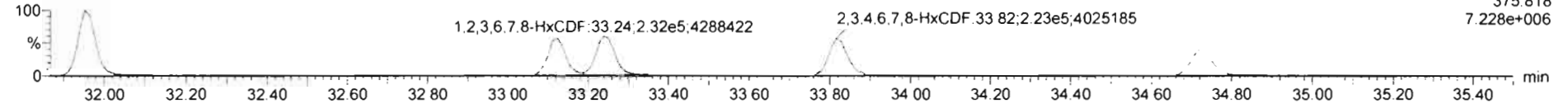
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1,2,3,4,7,8-HxCDF

200131R1_4

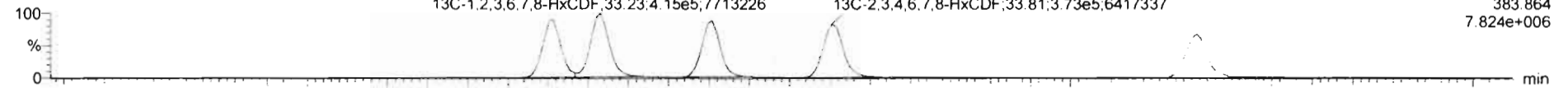


200131R1_4

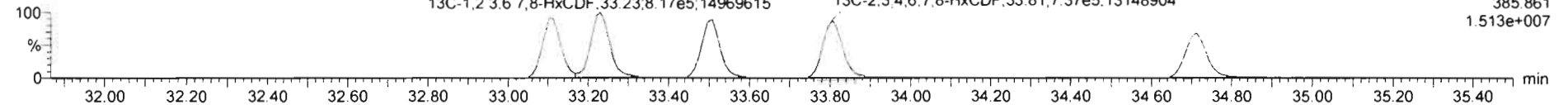


13C-1,2,3,4,7,8-HxCDF

200131R1_4

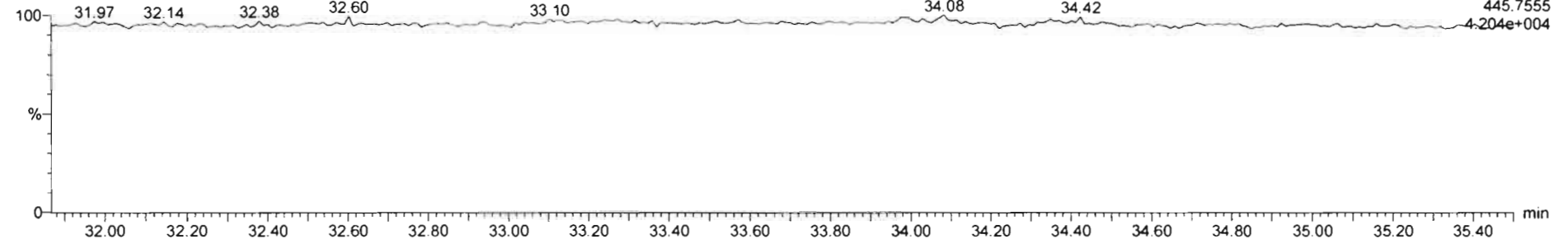


200131R1_4



DPE3

200131R1_4

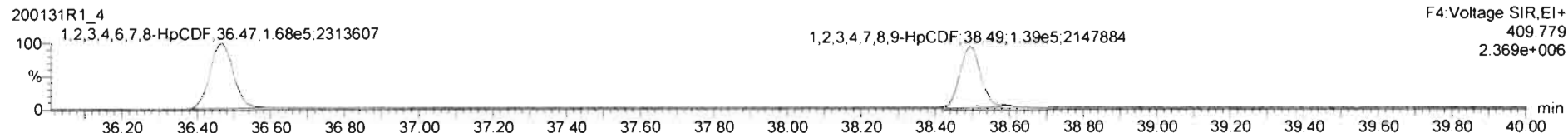
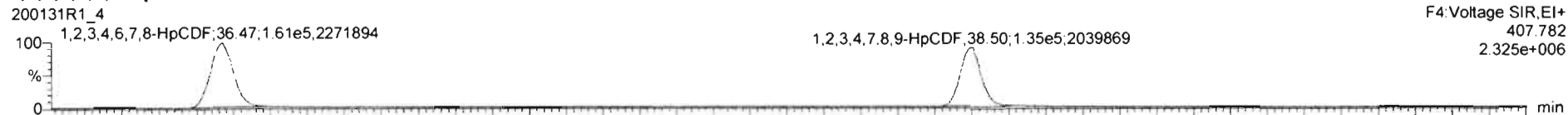


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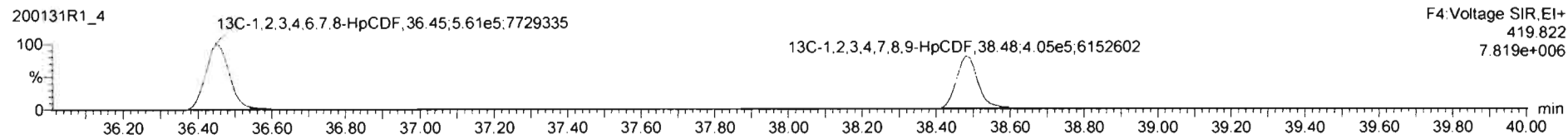
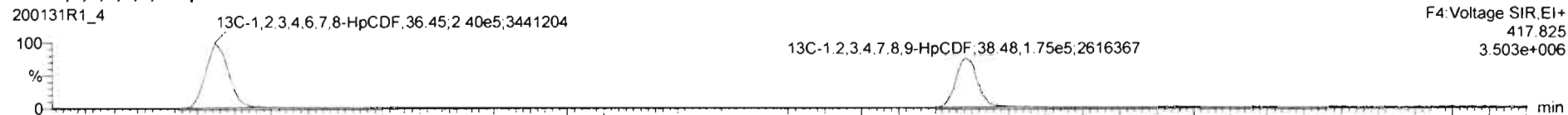
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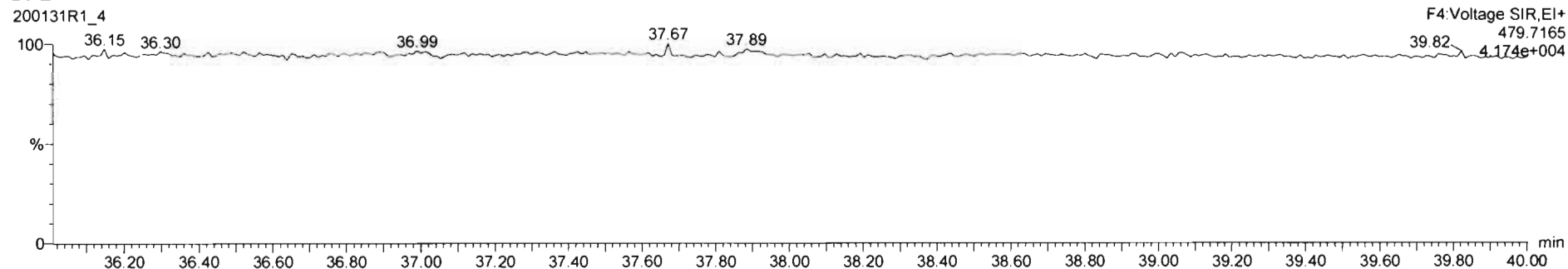
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

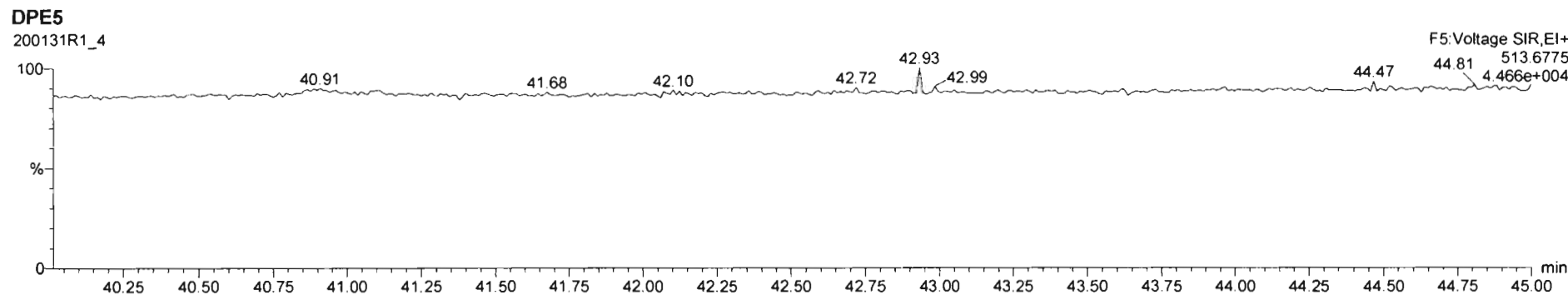
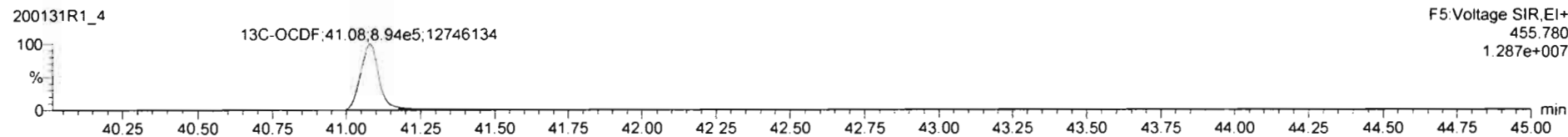
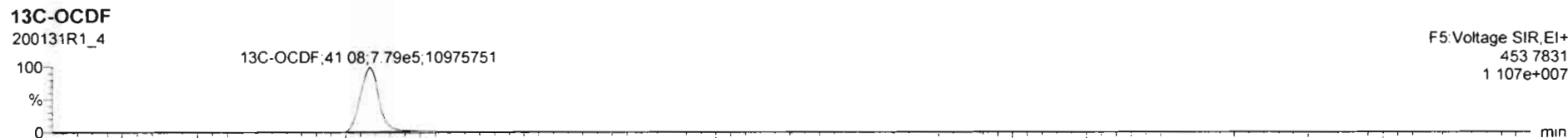
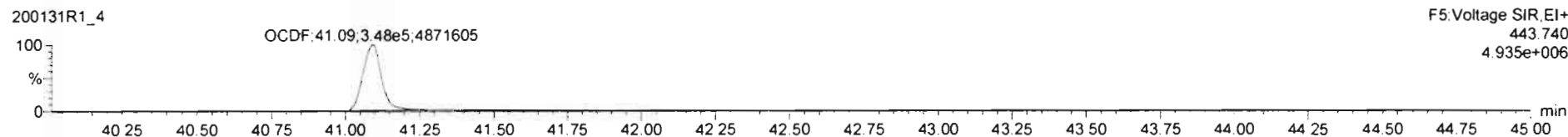
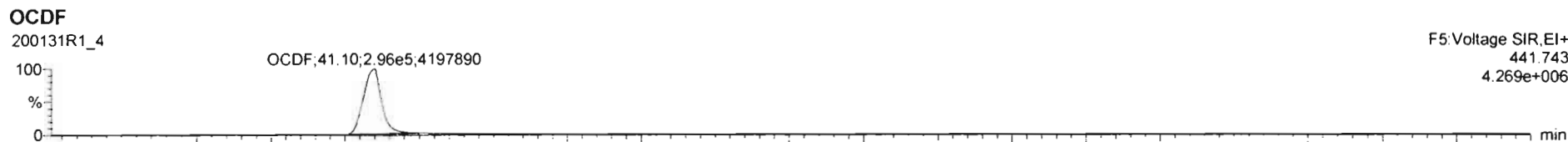


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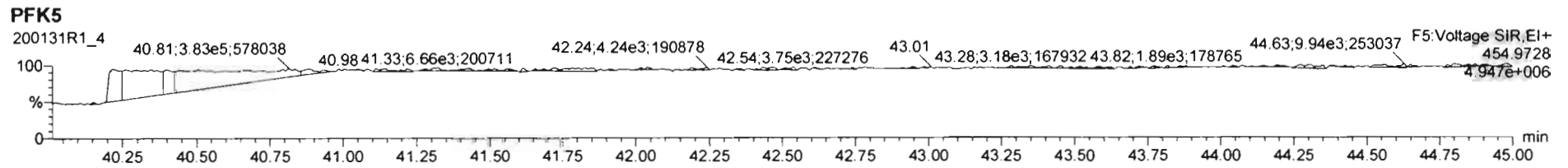
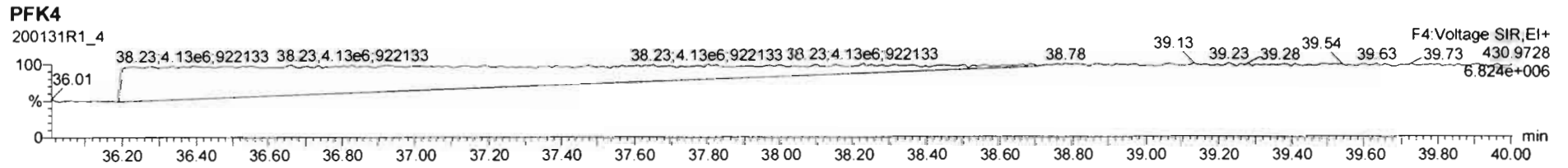
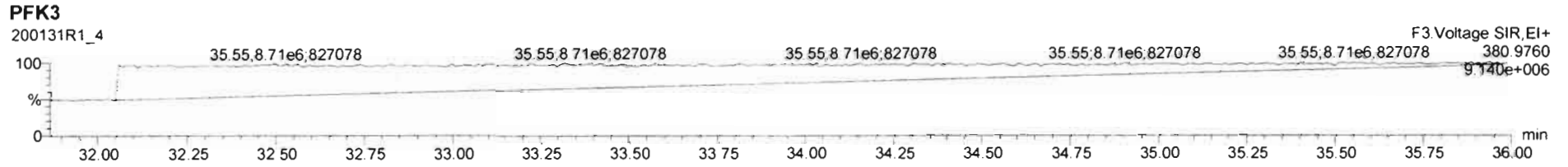
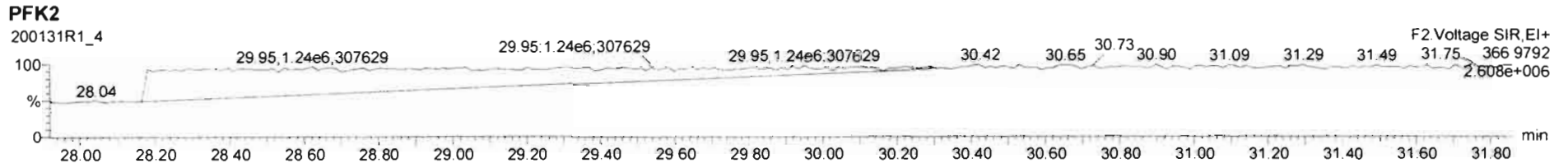
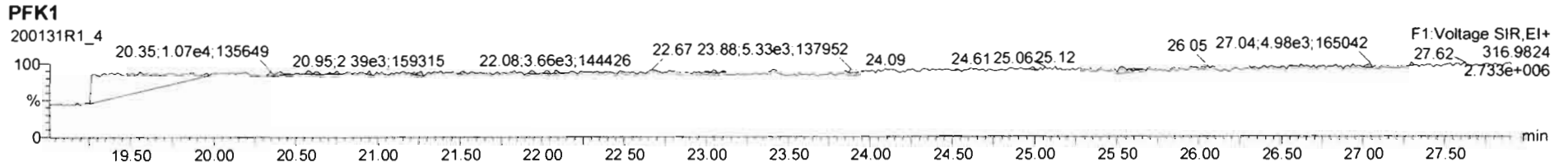


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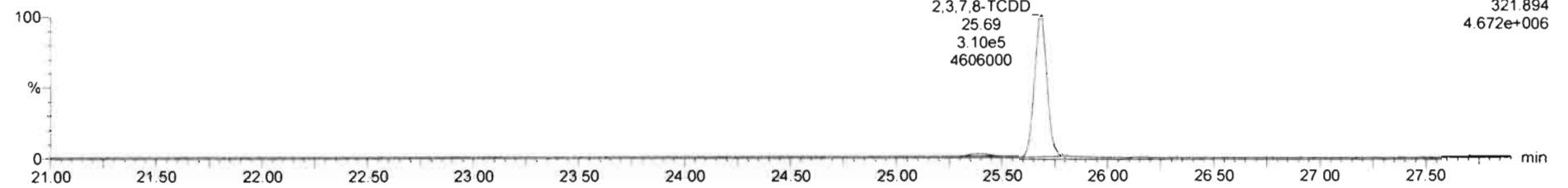
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2,3,7,8-TCDD

200131R1_5

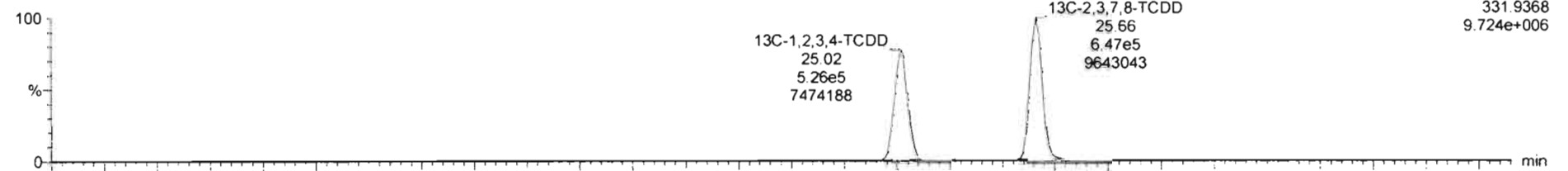


200131R1_5

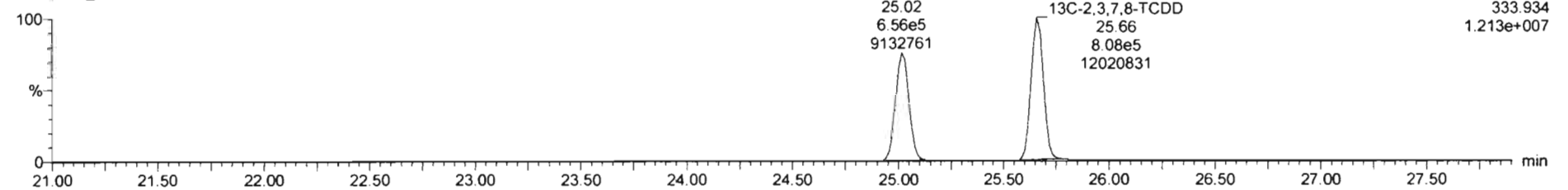


13C-2,3,7,8-TCDD

200131R1_5



200131R1_5



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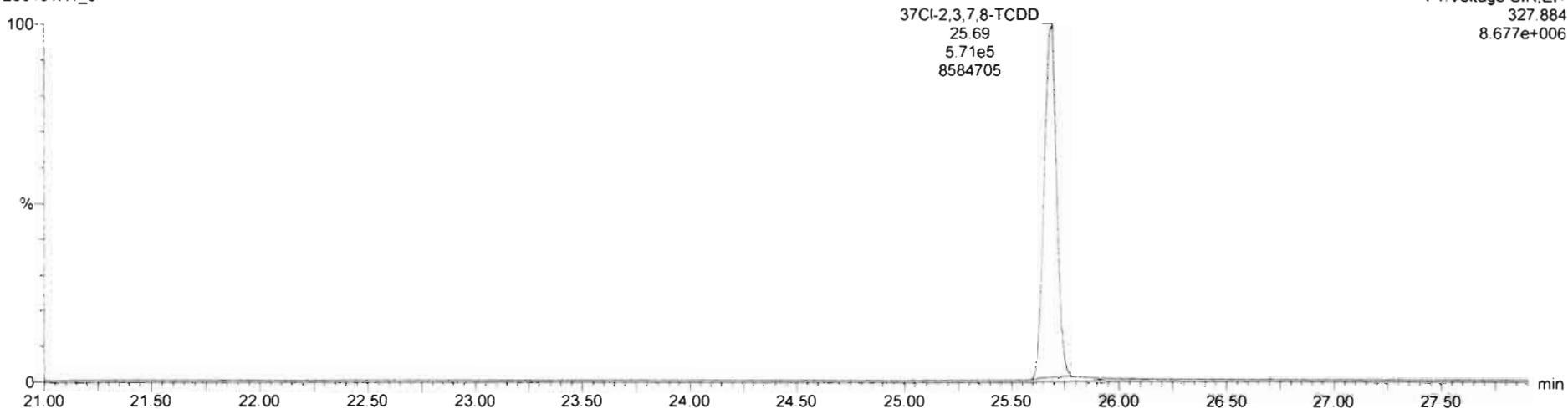
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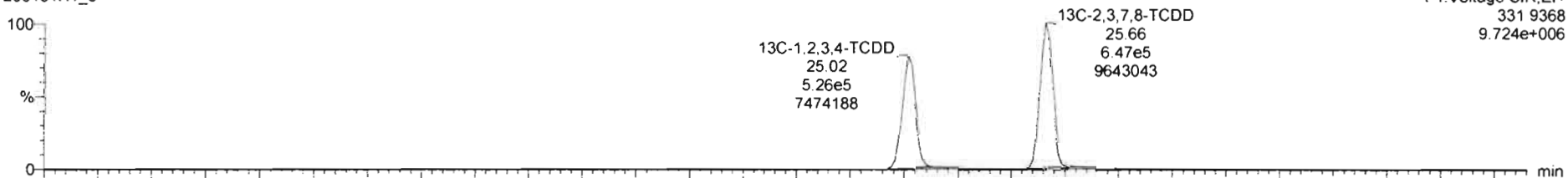
37Cl-2,3,7,8-TCDD

200131R1_5

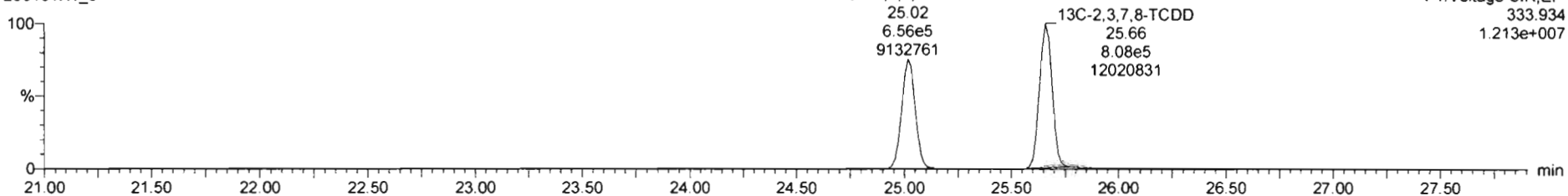


13C-1,2,3,4-TCDD

200131R1_5



200131R1_5



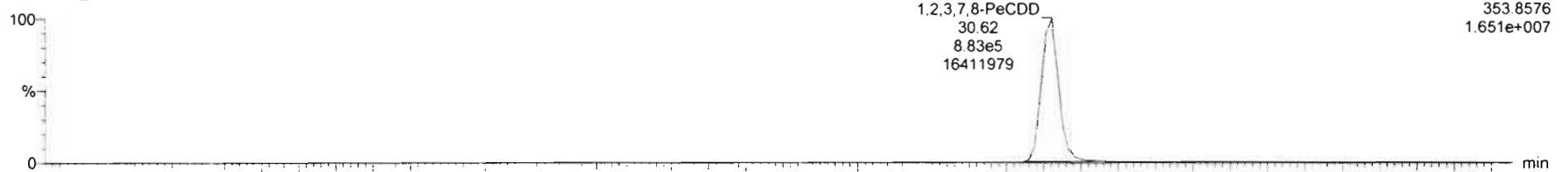
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

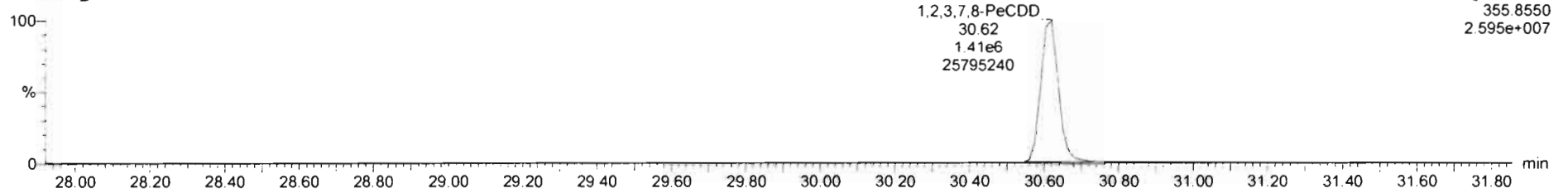
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1,2,3,7,8-PeCDD

200131R1_5

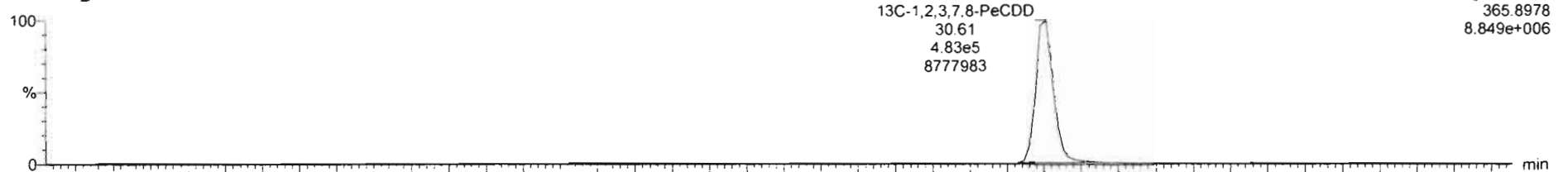


200131R1_5

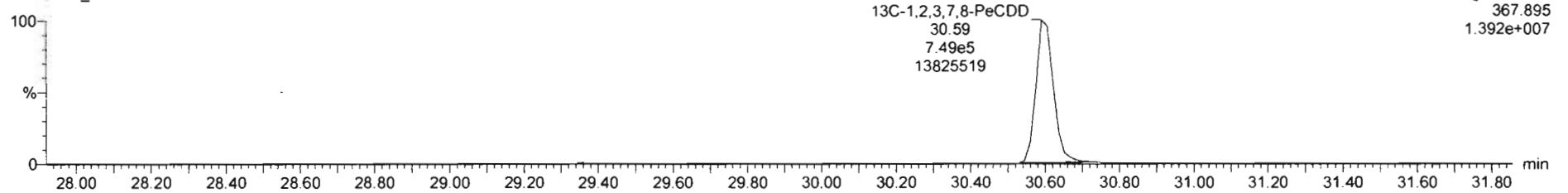


13C-1,2,3,7,8-PeCDD

200131R1_5



200131R1_5



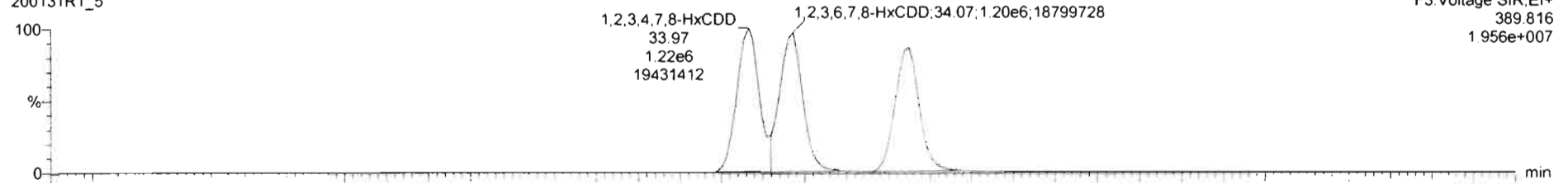
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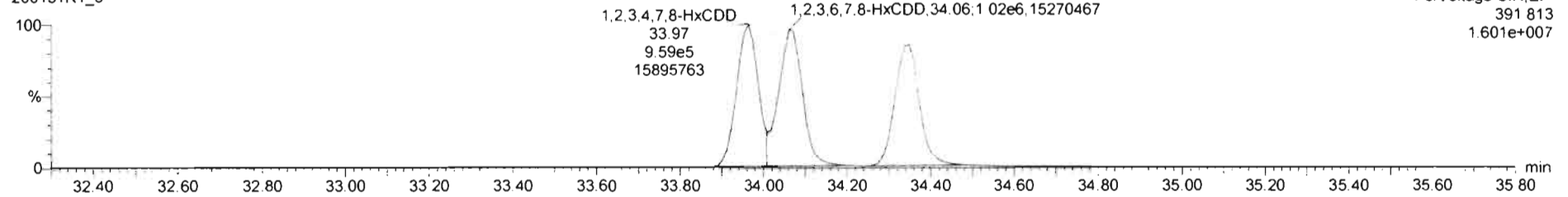
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1,2,3,4,7,8-HxCDD

200131R1_5

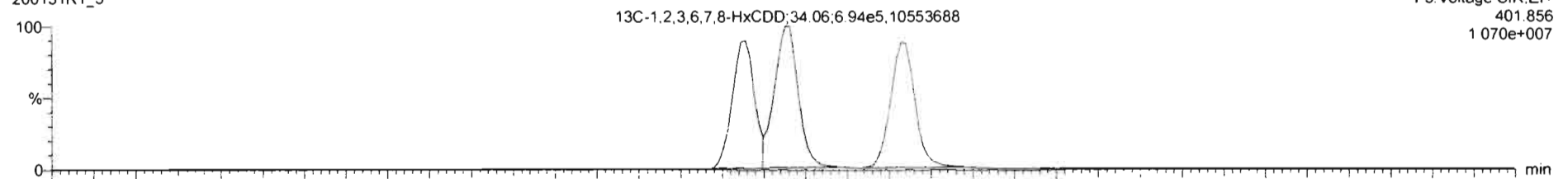


200131R1_5

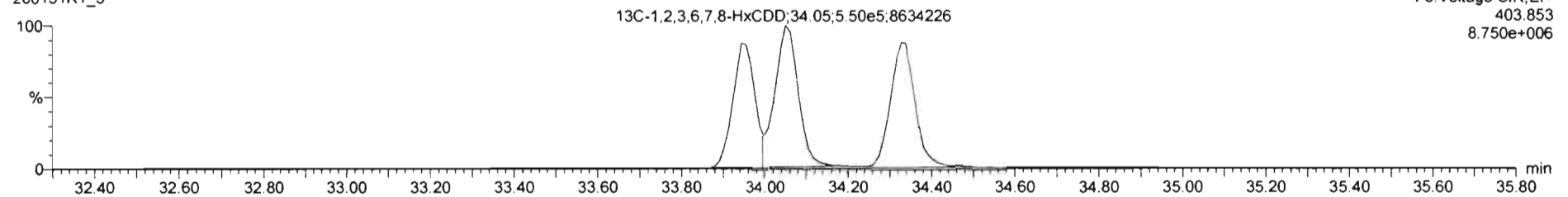


13C-1,2,3,4,7,8-HxCDD

200131R1_5



200131R1_5



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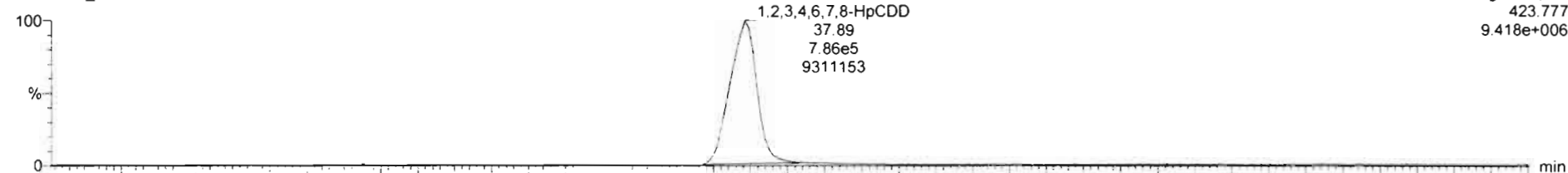
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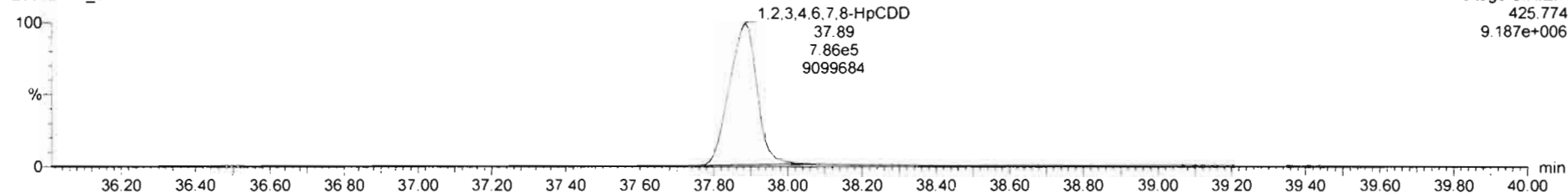
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1,2,3,4,6,7,8-HpCDD

200131R1_5

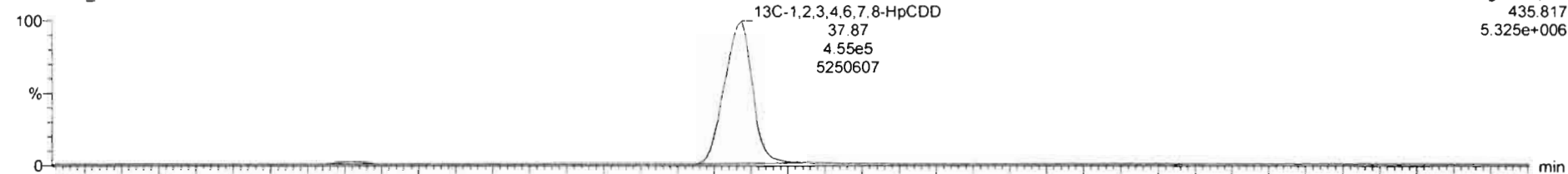


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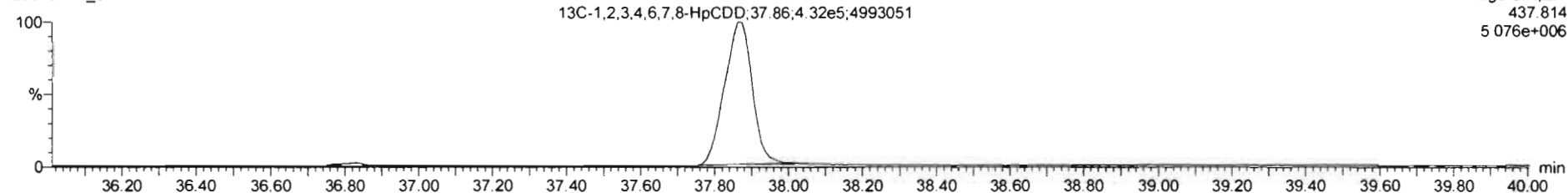


13C-1,2,3,4,6,7,8-HpCDD

200131R1_5



200131R1_5



Dataset: Untitled

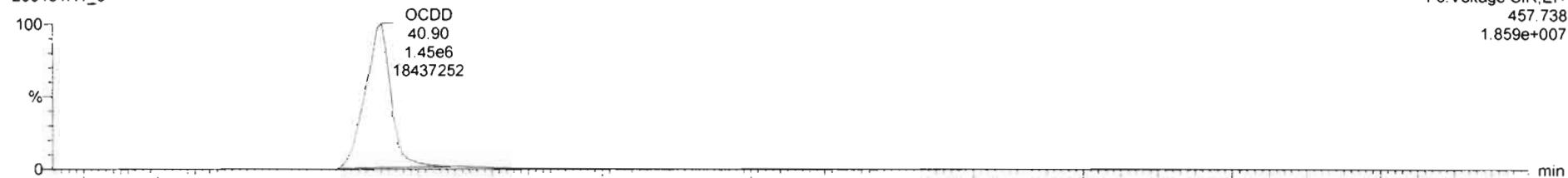
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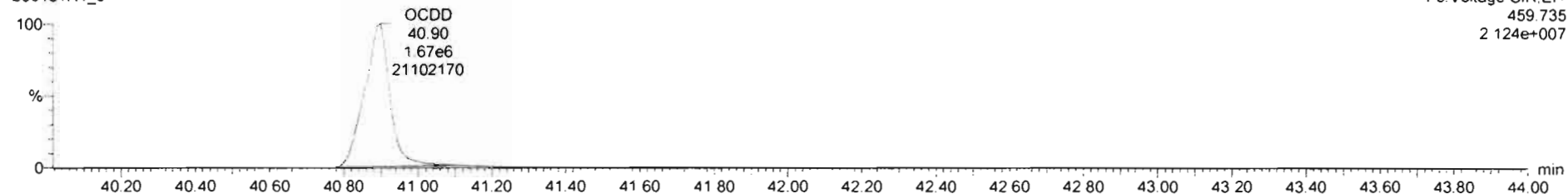
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OCDD

200131R1_5

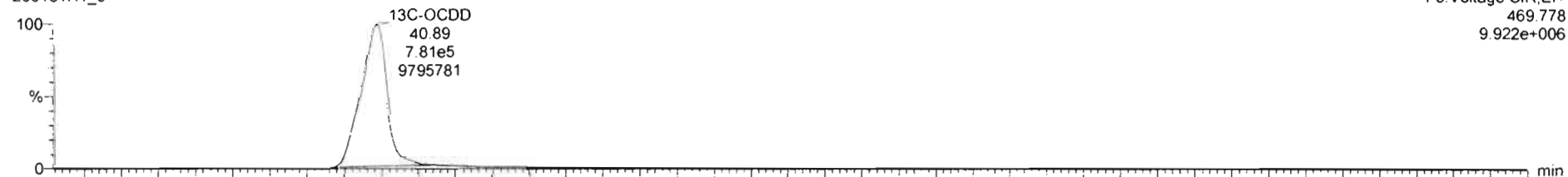


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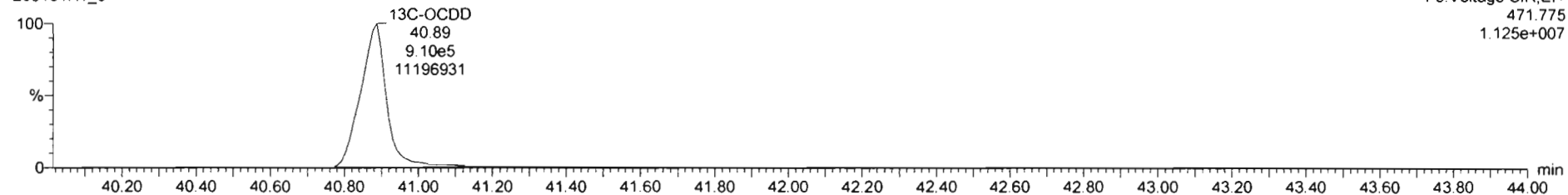


13C-OCDD

200131R1_5



200131R1_5



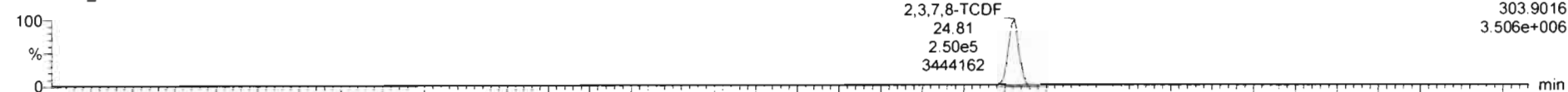
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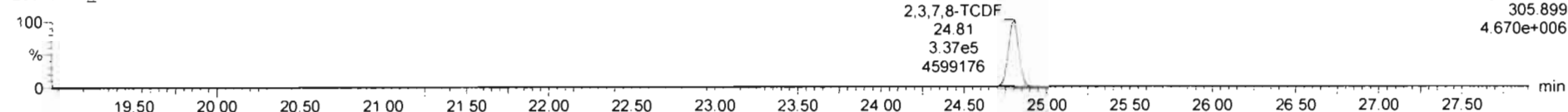
2,3,7,8-TCDF

200131R1_5



F1: Voltage SIR, EI+
303.9016
3.506e+006

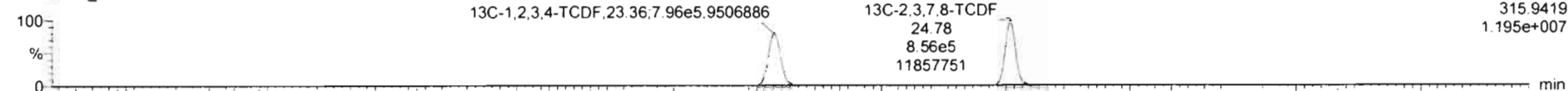
200131R1_5



F1: Voltage SIR, EI+
305.899
4.670e+006

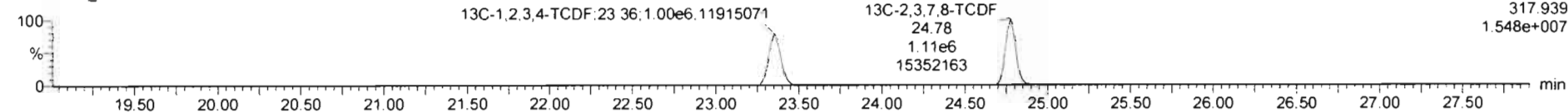
13C-2,3,7,8-TCDF

200131R1_5



F1: Voltage SIR, EI+
315.9419
1.195e+007

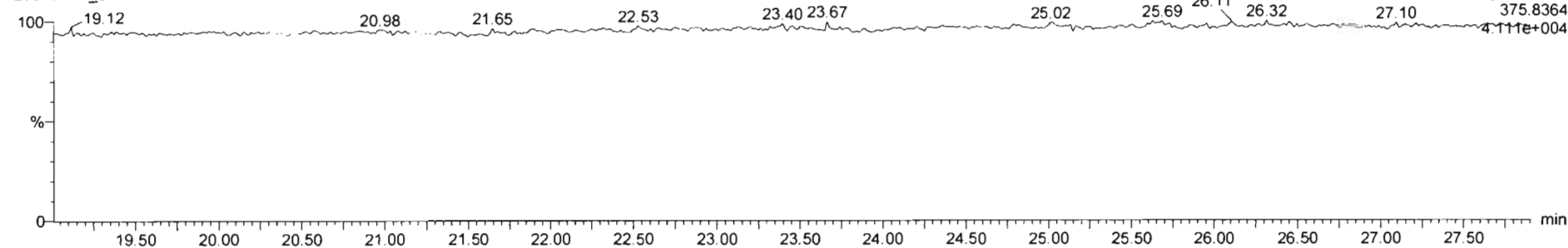
200131R1_5



F1: Voltage SIR, EI+
317.939
1.548e+007

DPE1

200131R1_5



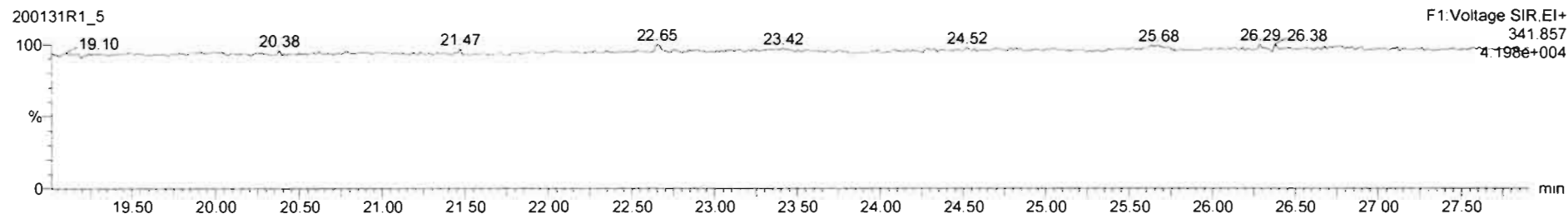
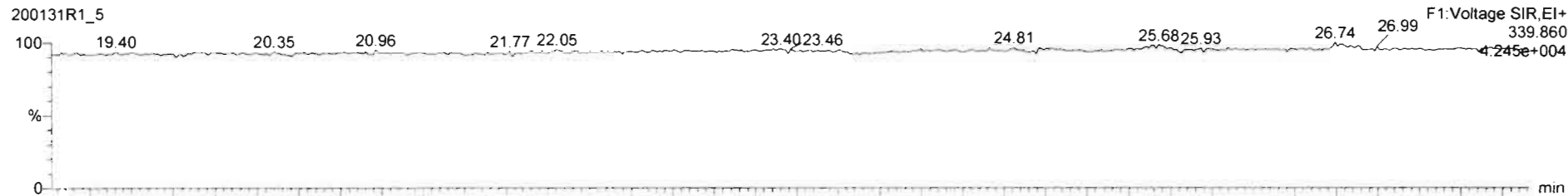
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4.111e+004

Dataset: Untitled

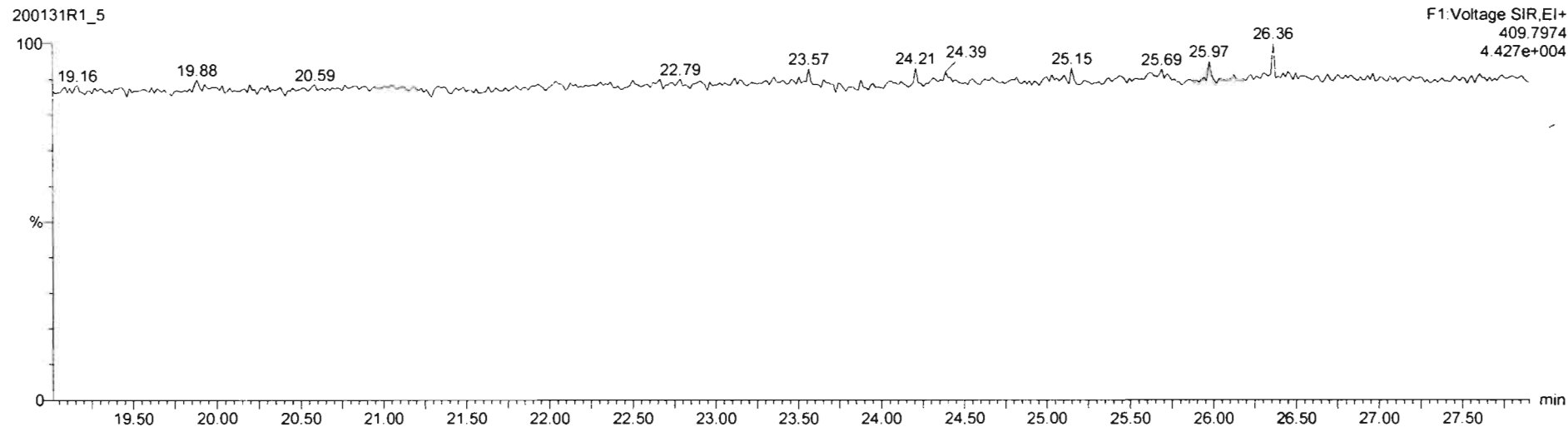
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1st Func. Penta-Furans



DPE6



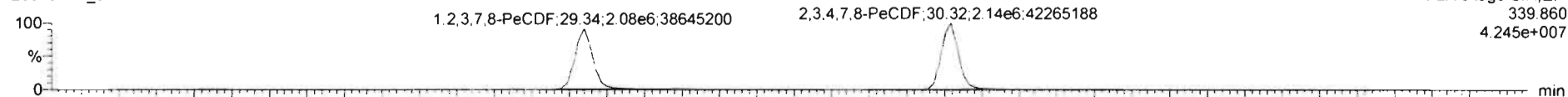
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

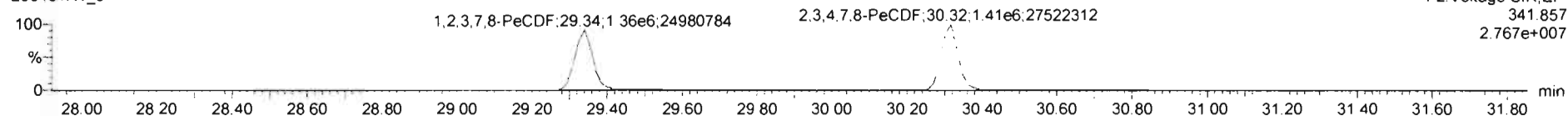
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1,2,3,7,8-PeCDF

200131R1_5

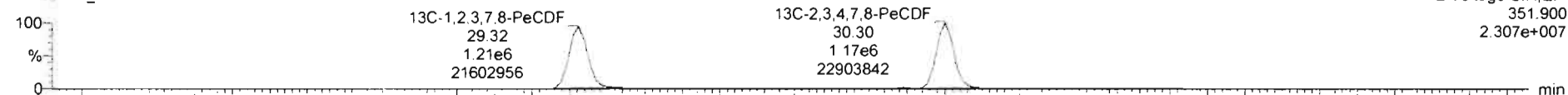


200131R1_5

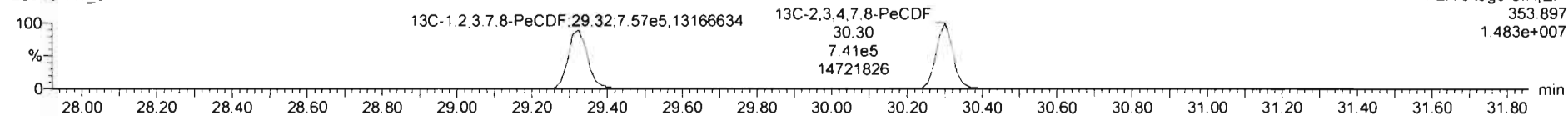


13C-1,2,3,7,8-PeCDF

200131R1_5

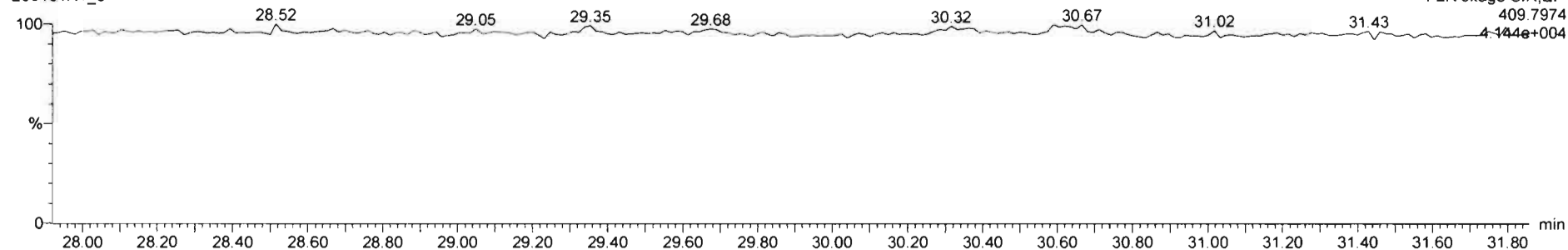


200131R1_5



DPE2

200131R1_5



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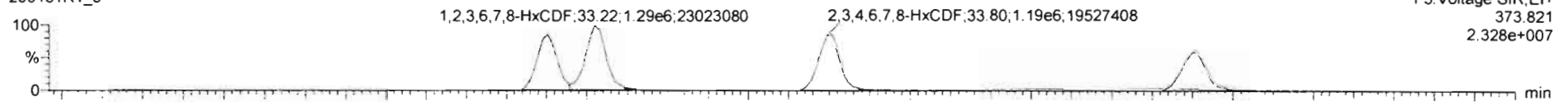
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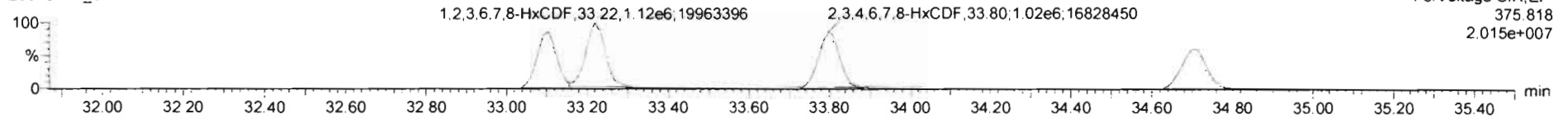
1,2,3,4,7,8-HxCDF

200131R1_5



F3: Voltage SIR, EI+
373.821
2.328e+007

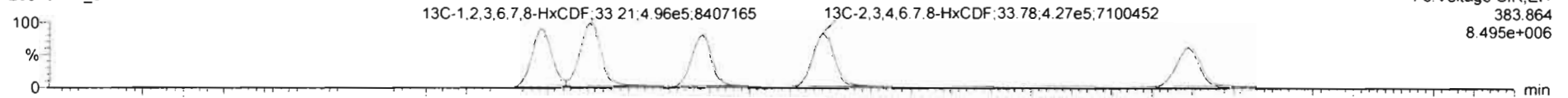
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F3: Voltage SIR, EI+
375.818
2.015e+007

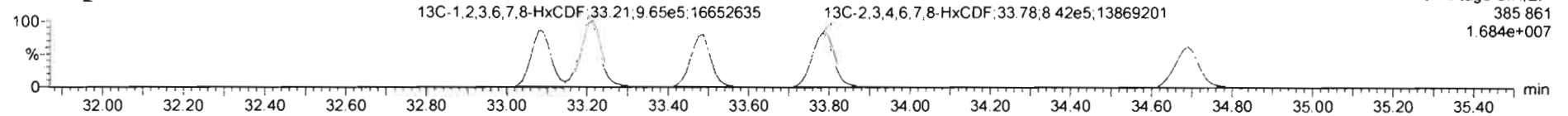
13C-1,2,3,4,7,8-HxCDF

200131R1_5



F3: Voltage SIR, EI+
383.864
8.495e+006

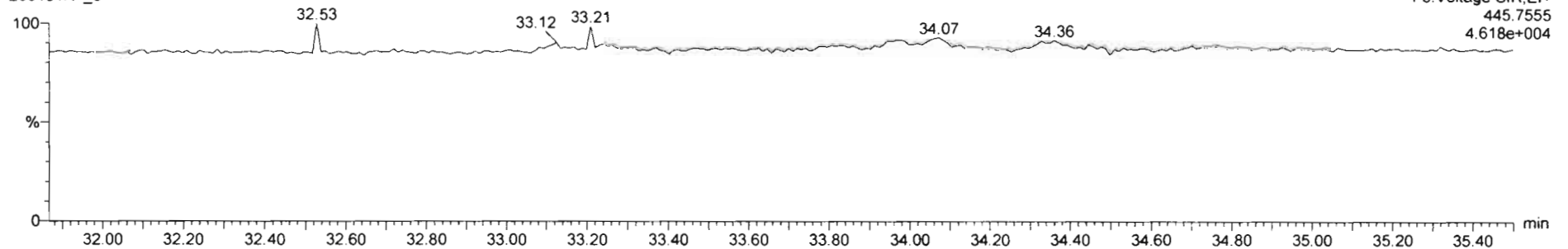
200131R1_5



F3: Voltage SIR, EI+
385.861
1.684e+007

DPE3

200131R1_5



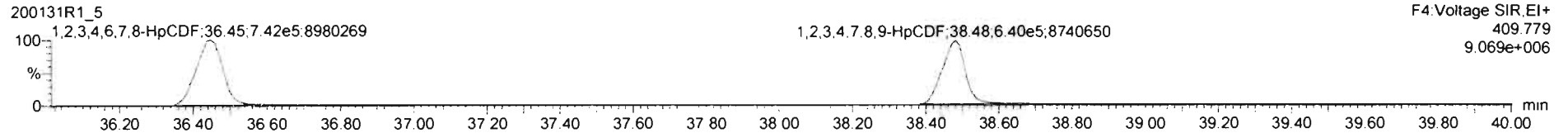
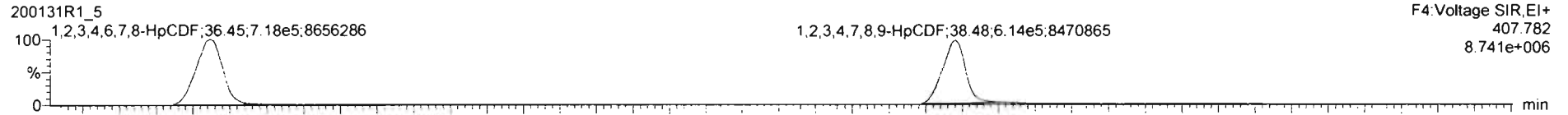
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445.7555
4.618e+004

Dataset: Untitled

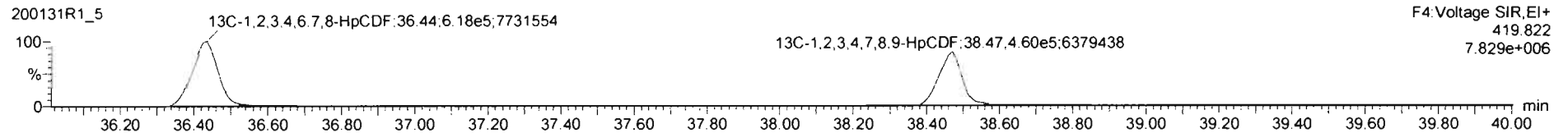
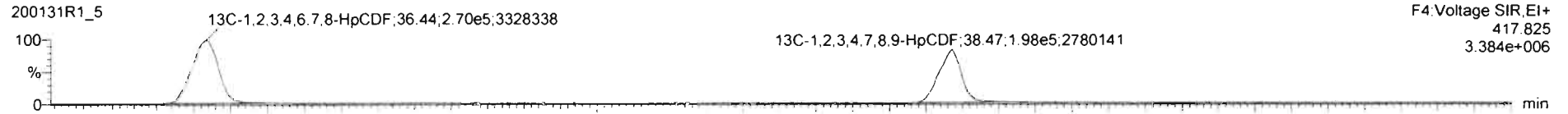
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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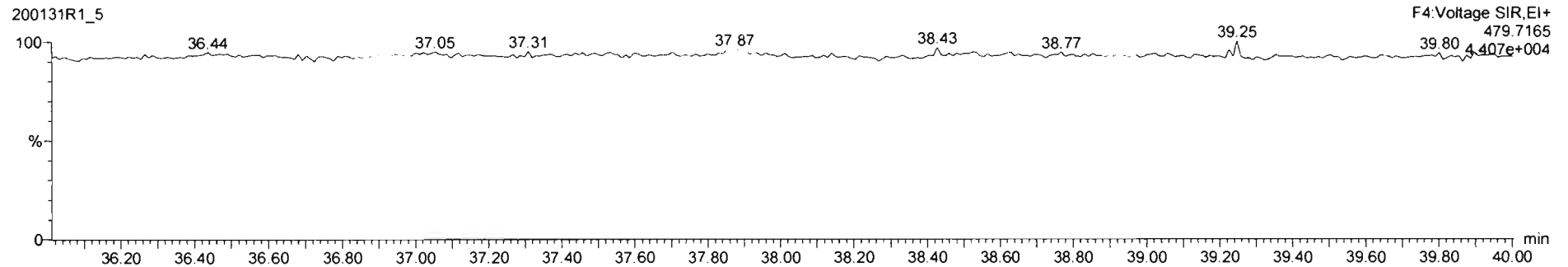
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

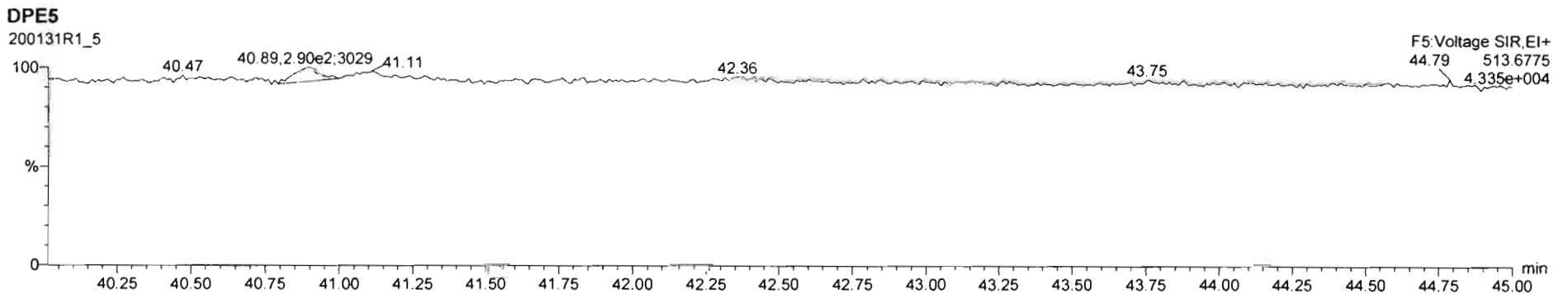
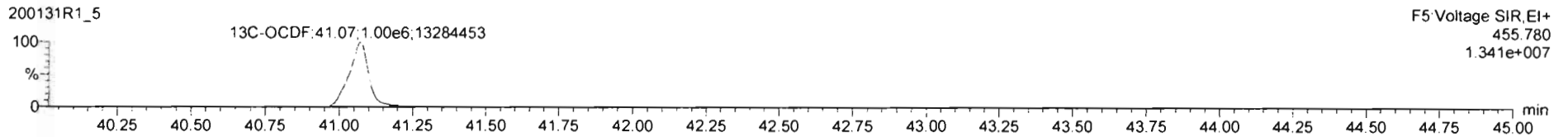
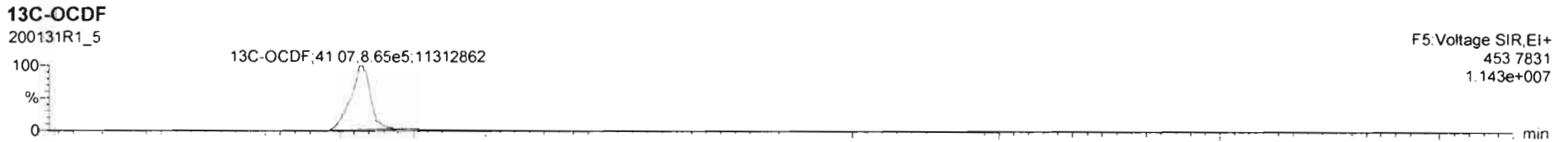
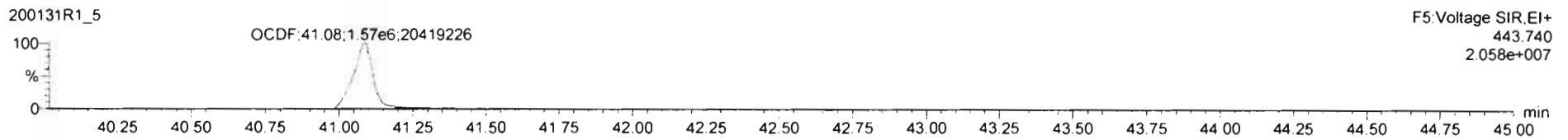
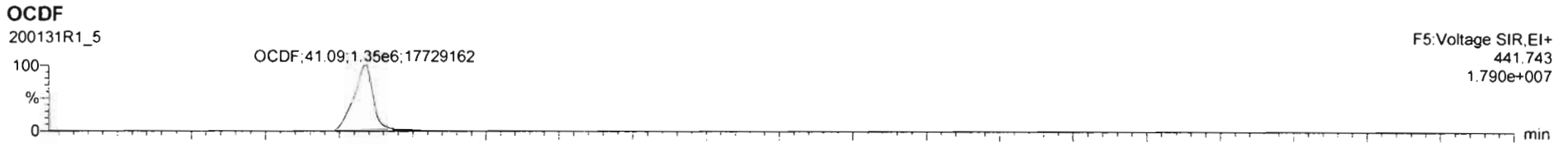


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

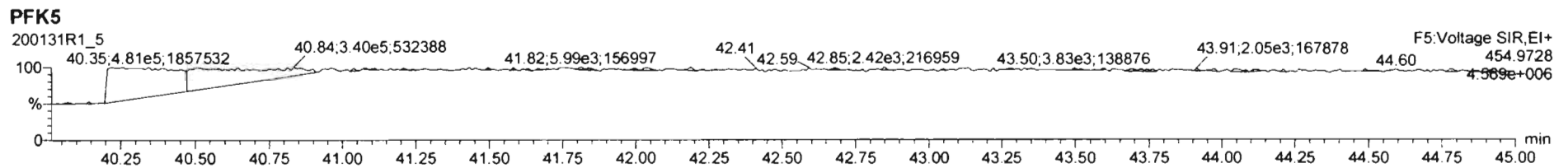
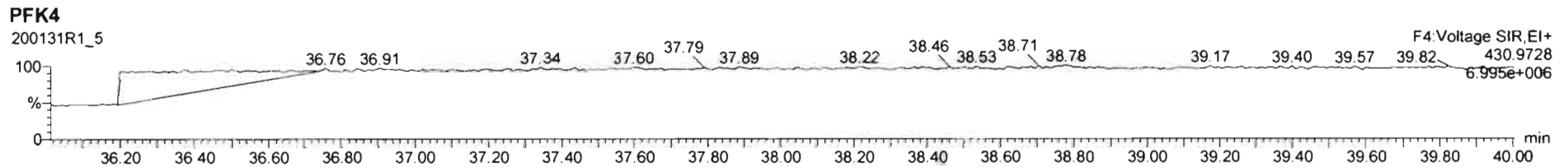
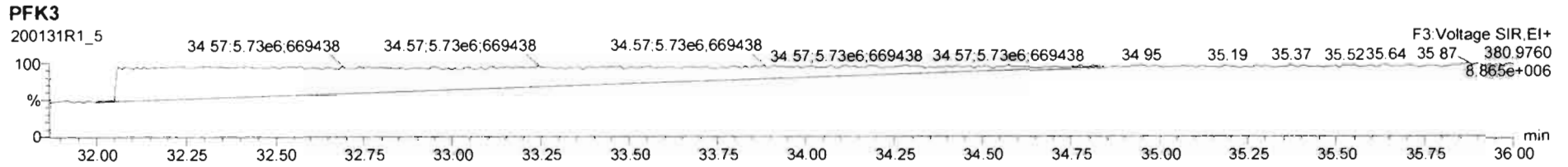
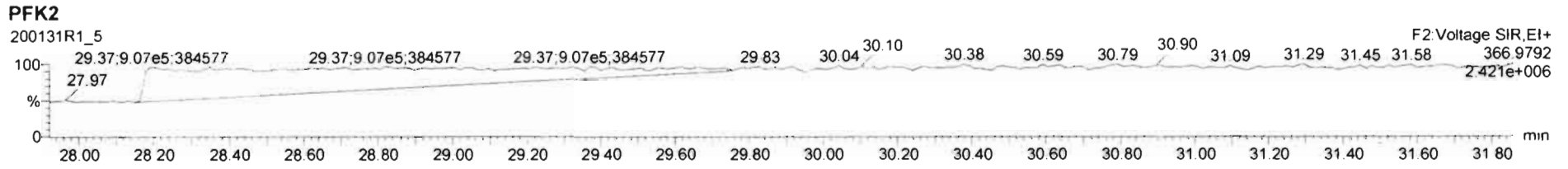
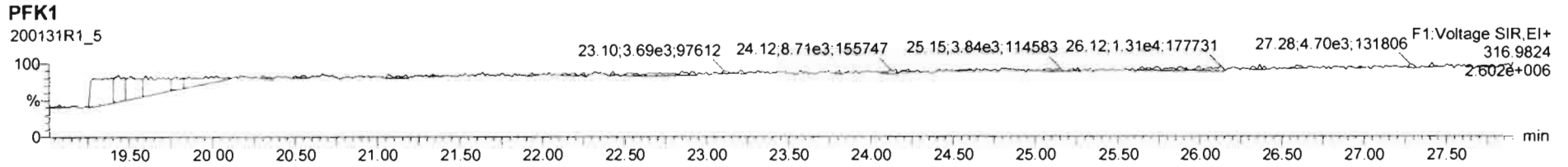
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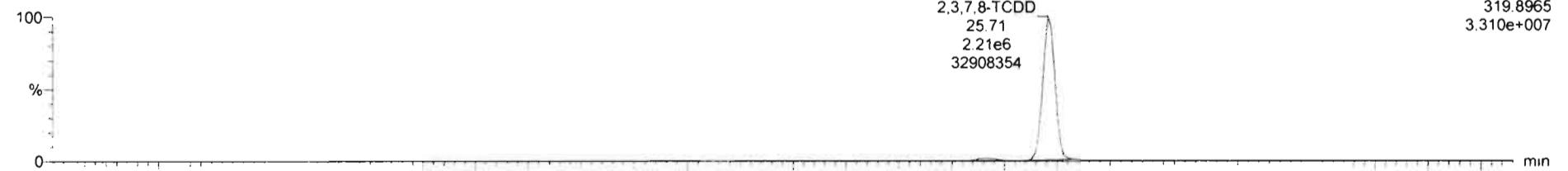
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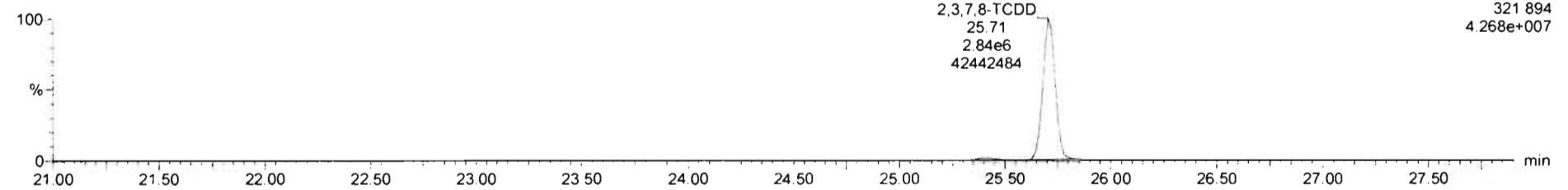
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2,3,7,8-TCDD

200131R1_6

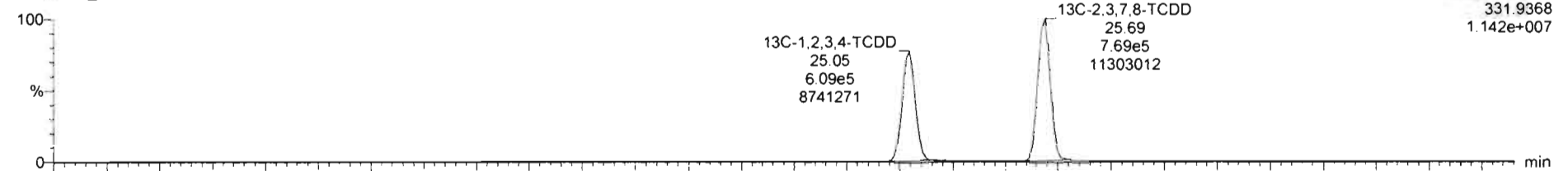


200131R1_6

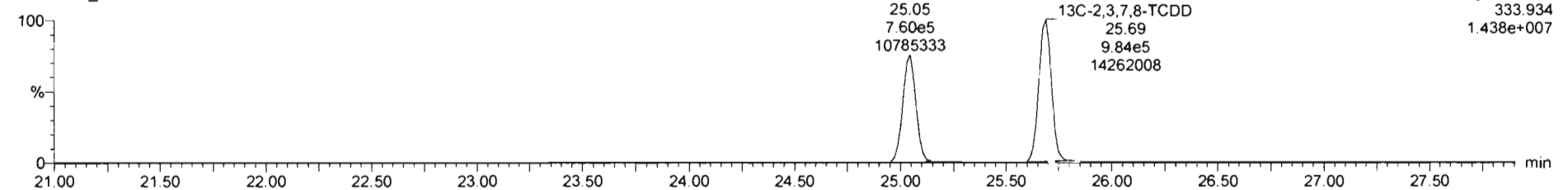


13C-2,3,7,8-TCDD

200131R1_6



200131R1_6



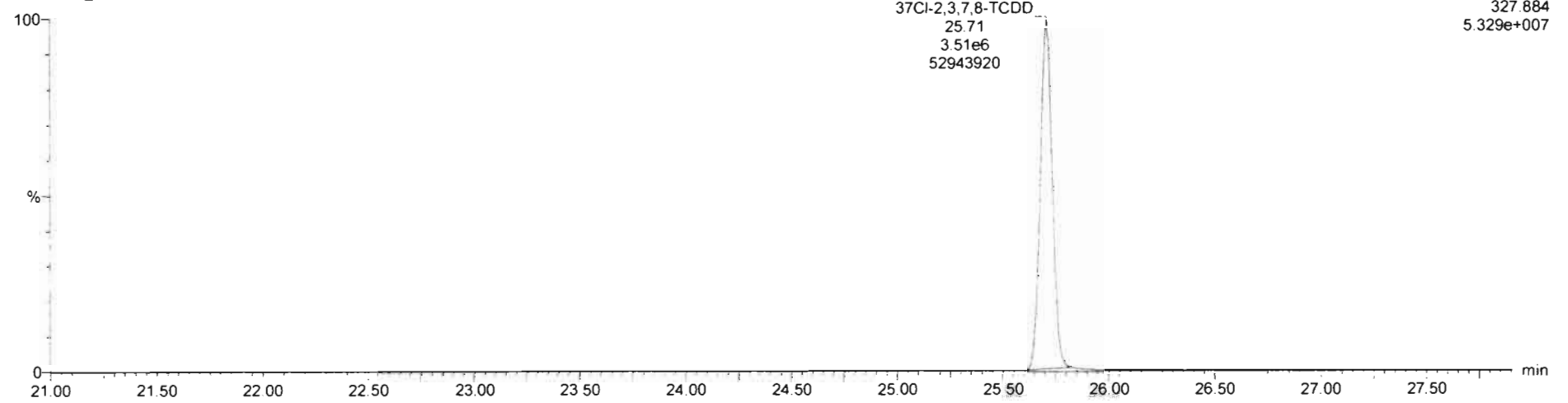
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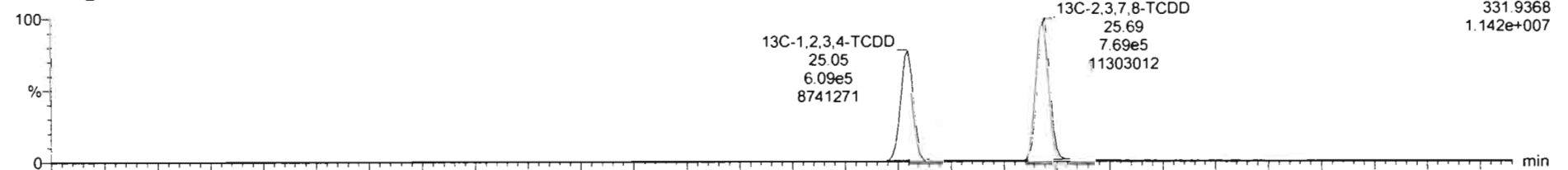
37Cl-2,3,7,8-TCDD

200131R1_6

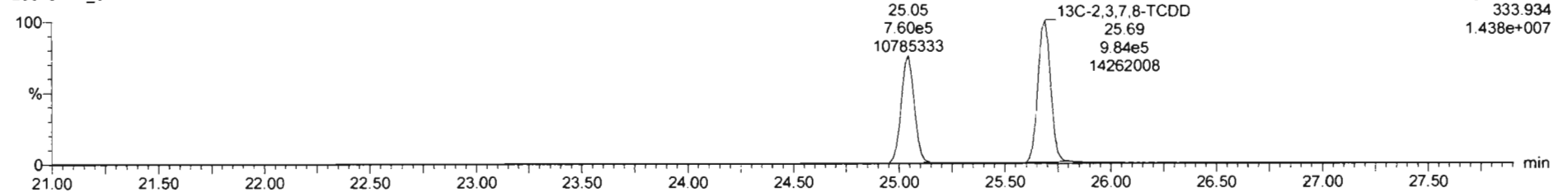


13C-1,2,3,4-TCDD

200131R1_6



200131R1_6



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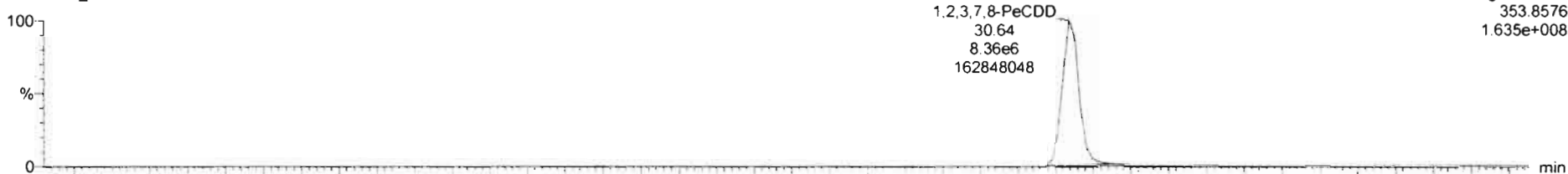
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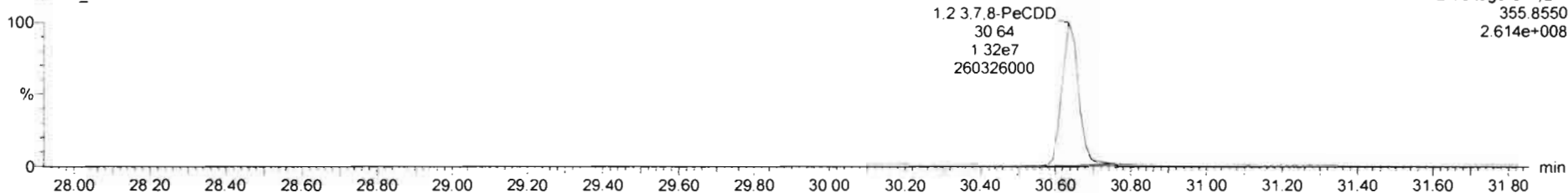
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1,2,3,7,8-PeCDD

200131R1_6

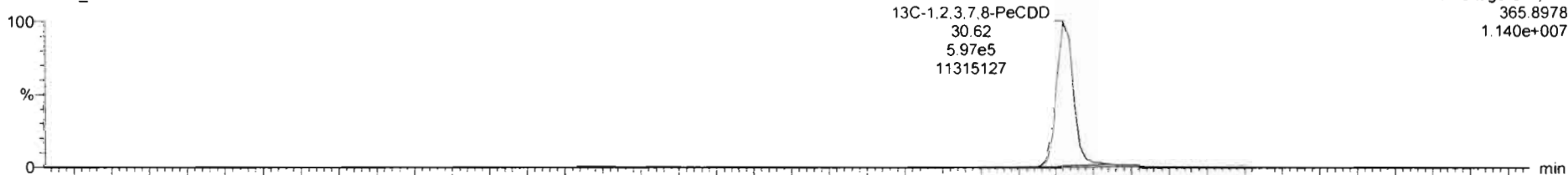


200131R1_6

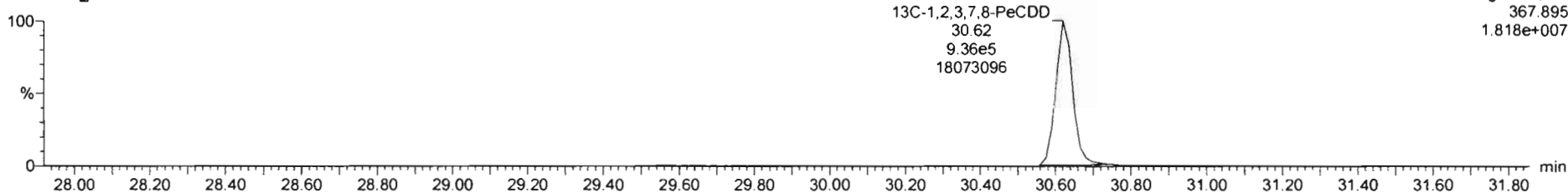


13C-1,2,3,7,8-PeCDD

200131R1_6



200131R1_6



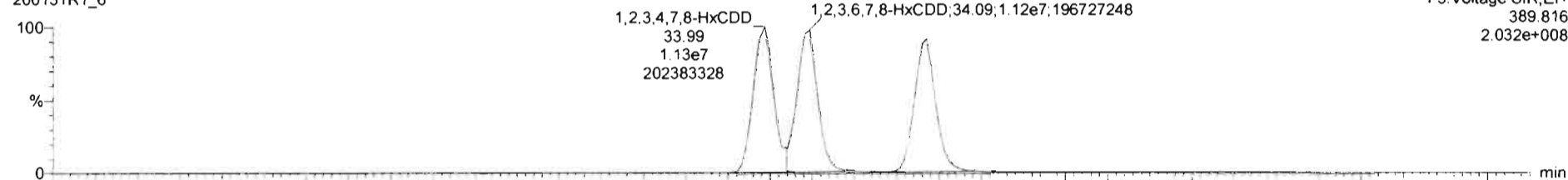
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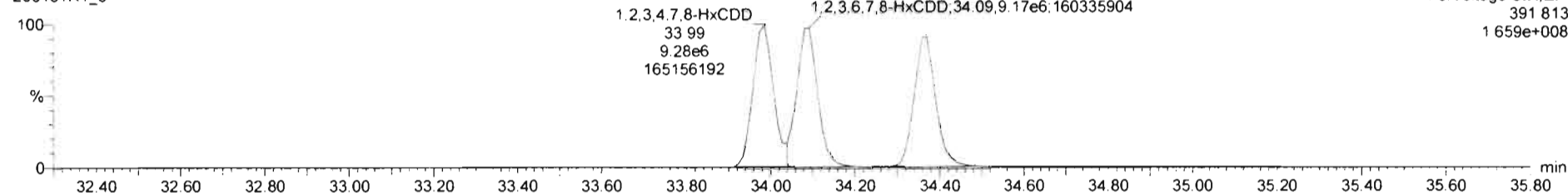
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1,2,3,4,7,8-HxCDD

200131R1_6

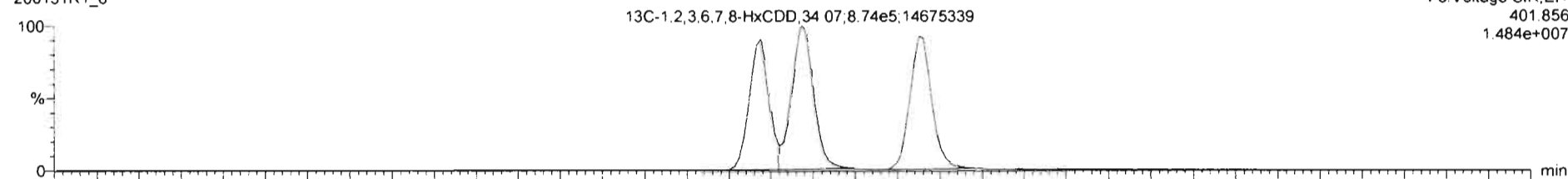


200131R1_6

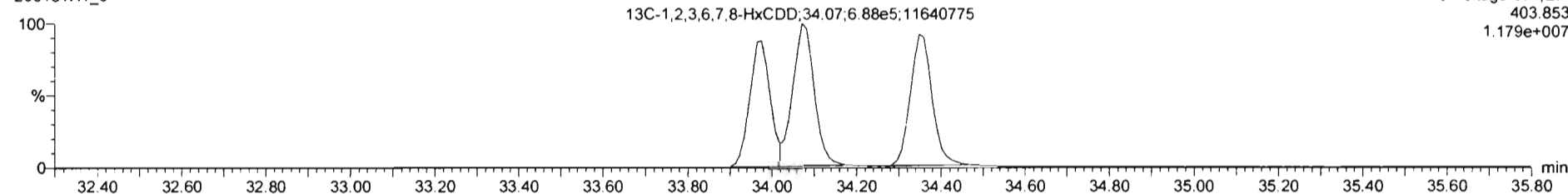


13C-1,2,3,4,7,8-HxCDD

200131R1_6



200131R1_6



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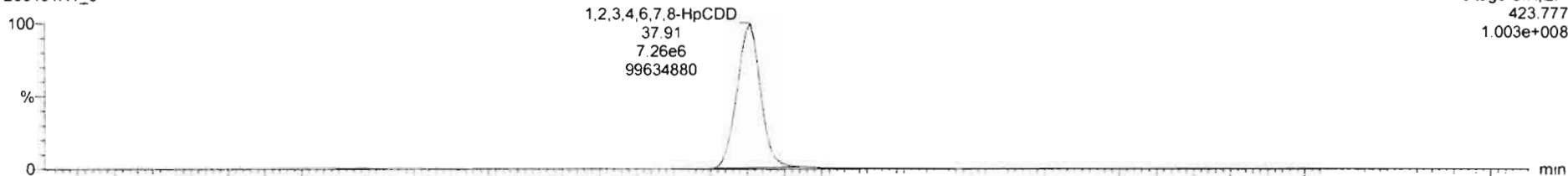
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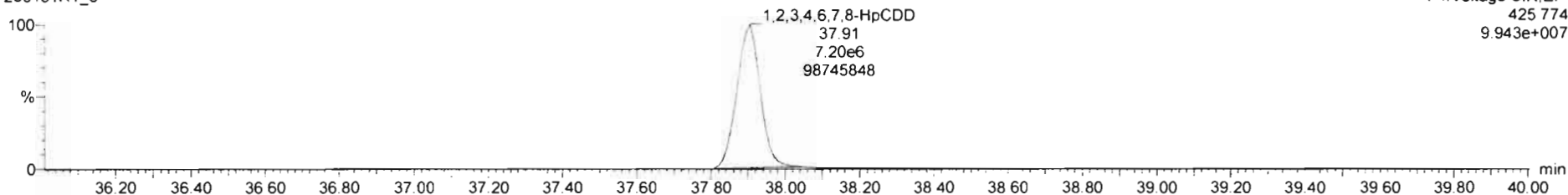
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1,2,3,4,6,7,8-HpCDD

200131R1_6

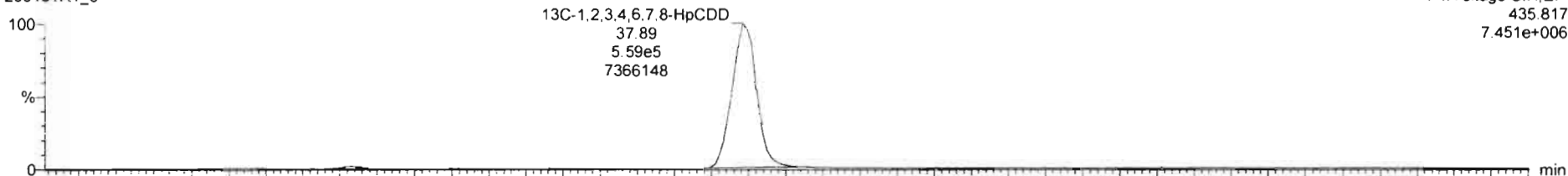


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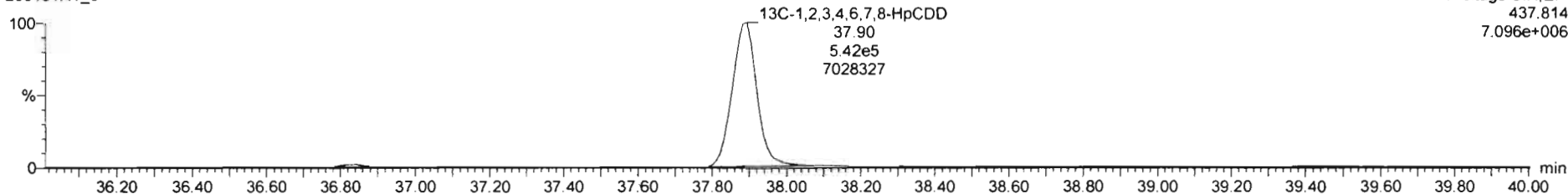


13C-1,2,3,4,6,7,8-HpCDD

200131R1_6



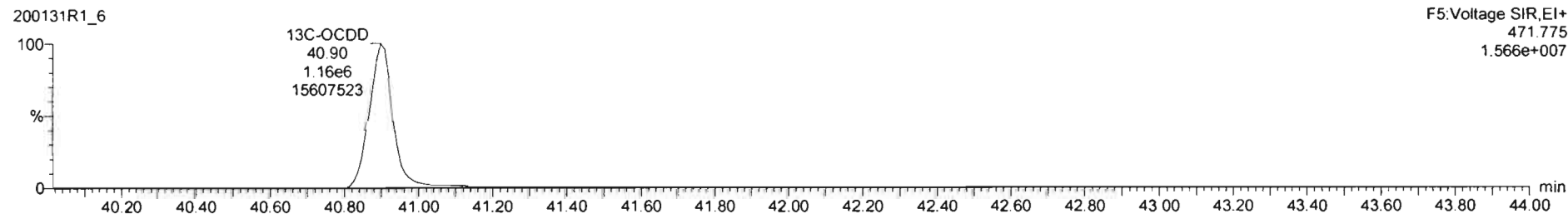
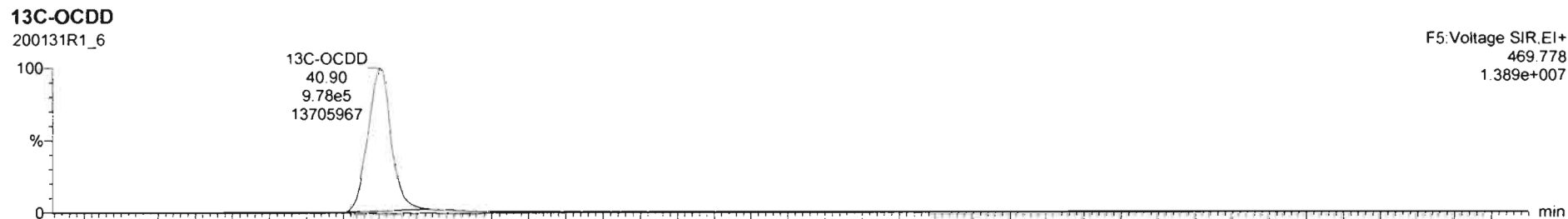
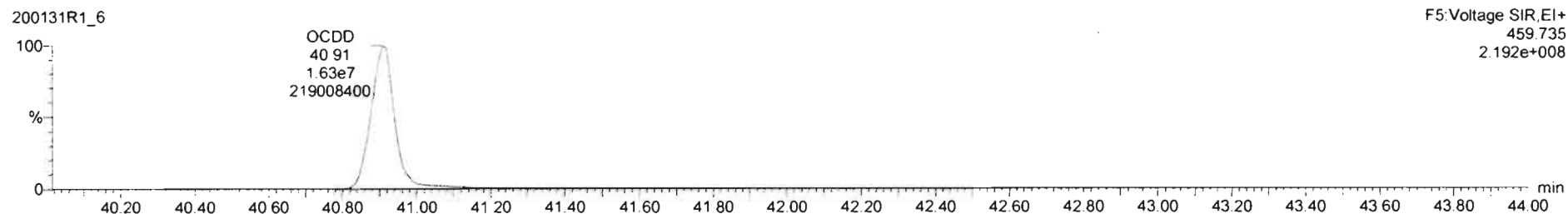
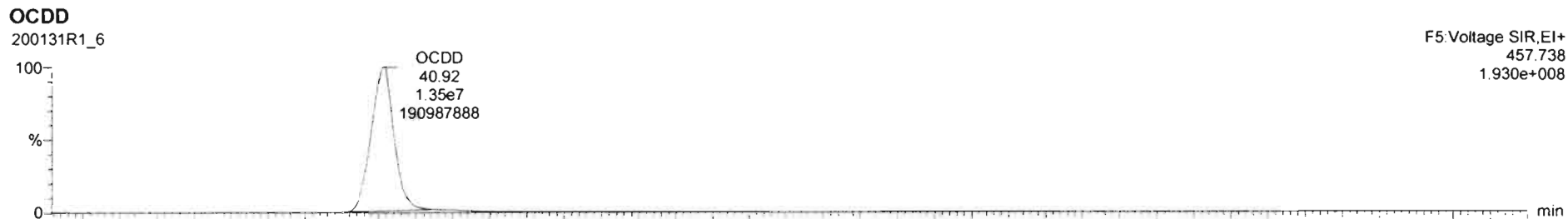
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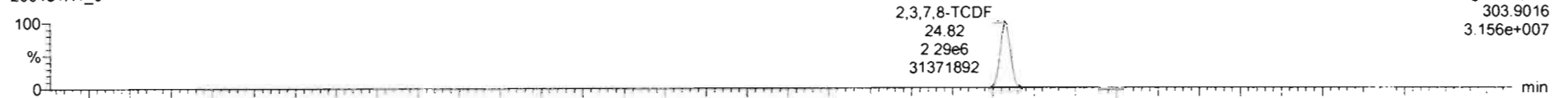
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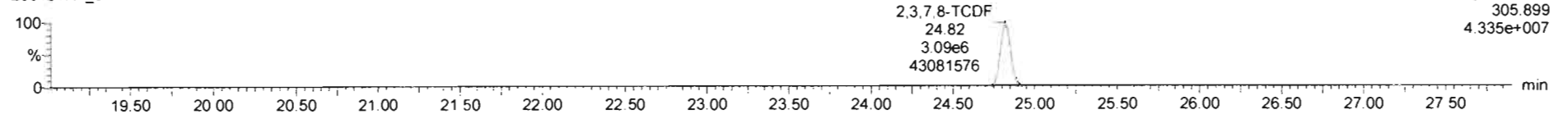
2,3,7,8-TCDF

200131R1_6



F1: Voltage SIR, EI+
303.9016
3.156e+007

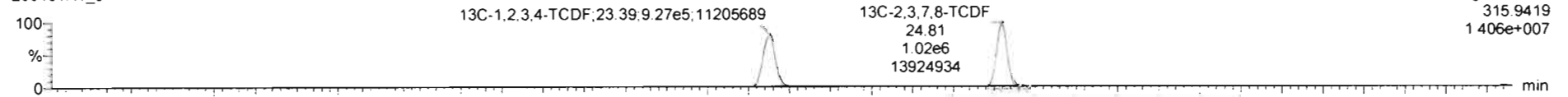
200131R1_6



F1: Voltage SIR, EI+
305.899
4.335e+007

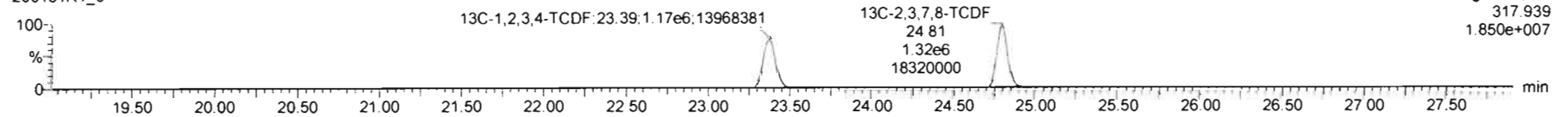
13C-2,3,7,8-TCDF

200131R1_6



F1: Voltage SIR, EI+
315.9419
1.406e+007

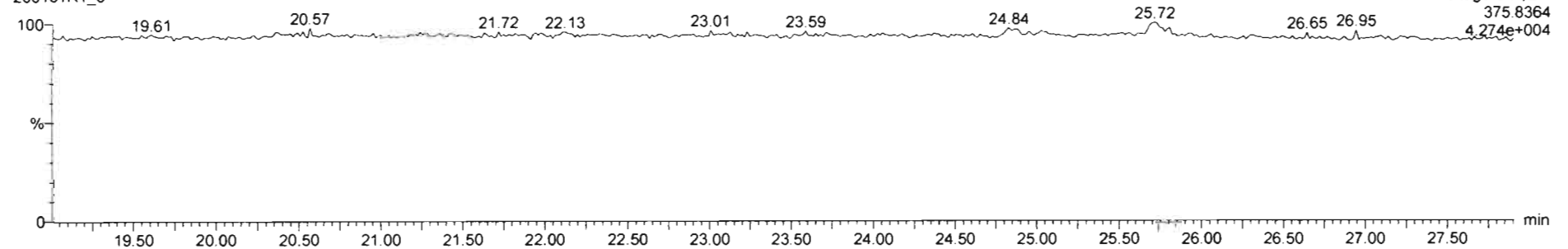
200131R1_6



F1: Voltage SIR, EI+
317.939
1.850e+007

DPE1

200131R1_6



F1: Voltage SIR, EI+
375.8364
4.274e+004

Dataset: Untitled

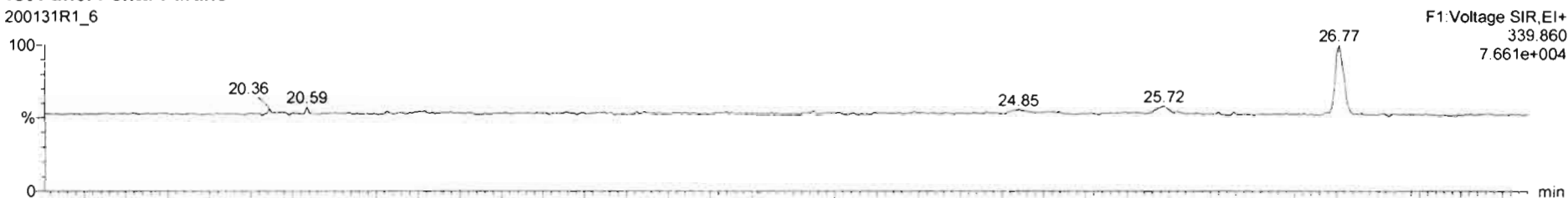
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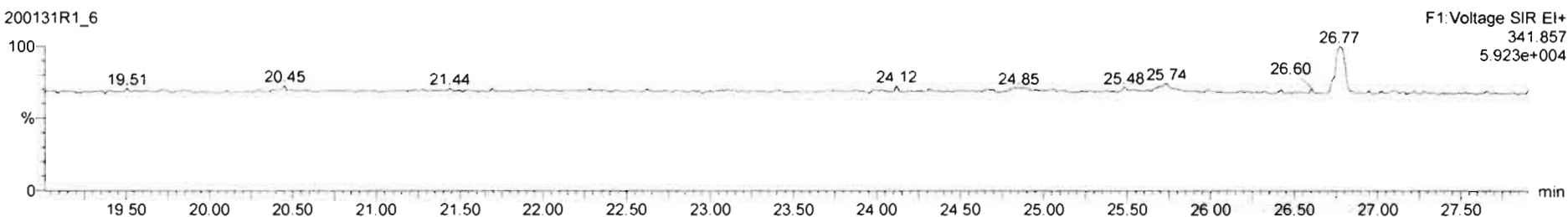
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1st Func. Penta-Furans

200131R1_6

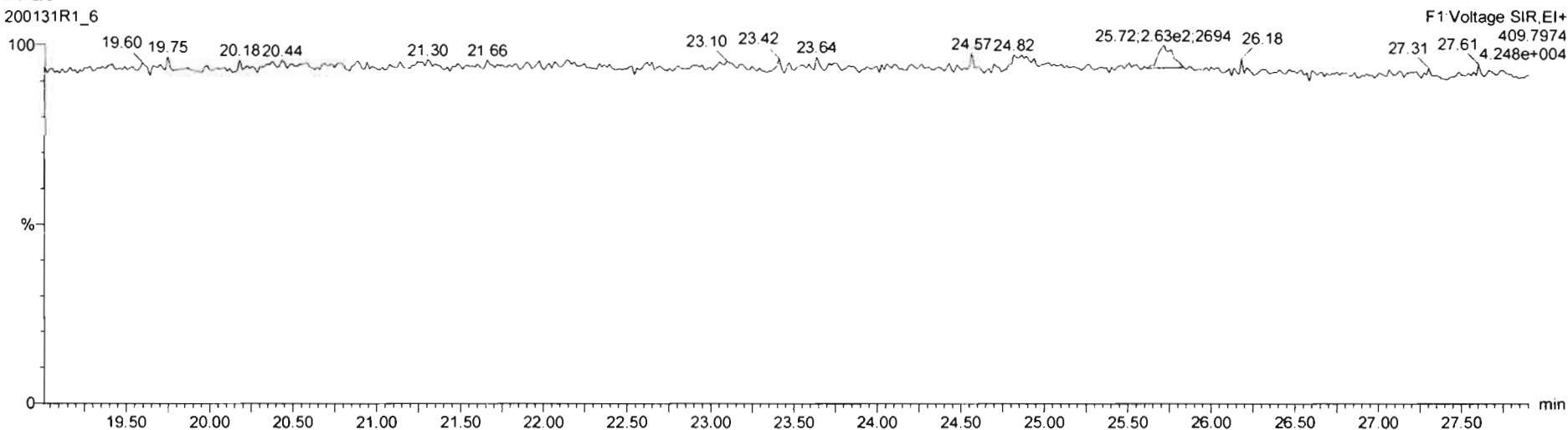


200131R1_6



DPE6

200131R1_6



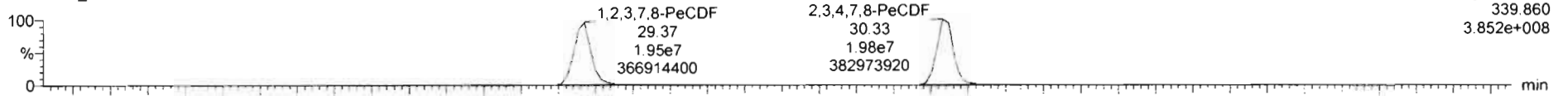
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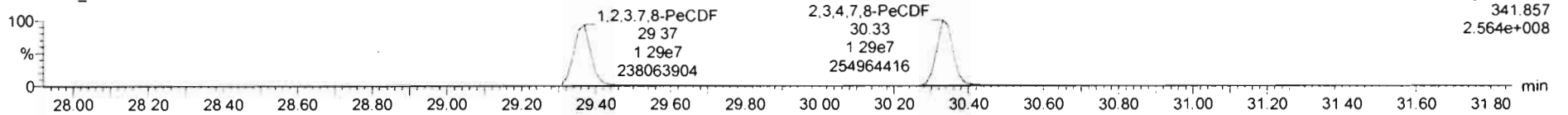
1,2,3,7,8-PeCDF

200131R1_6



F2: Voltage SIR, EI+
339.860
3.852e+008

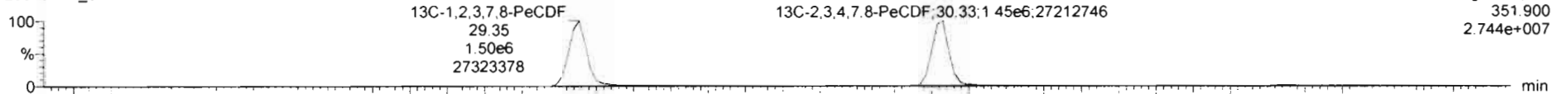
200131R1_6



F2: Voltage SIR, EI+
341.857
2.564e+008

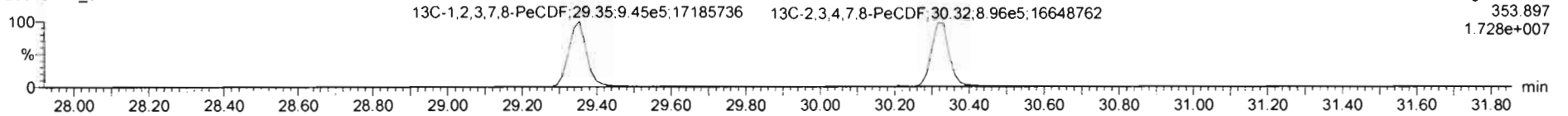
13C-1,2,3,7,8-PeCDF

200131R1_6



F2: Voltage SIR, EI+
351.900
2.744e+007

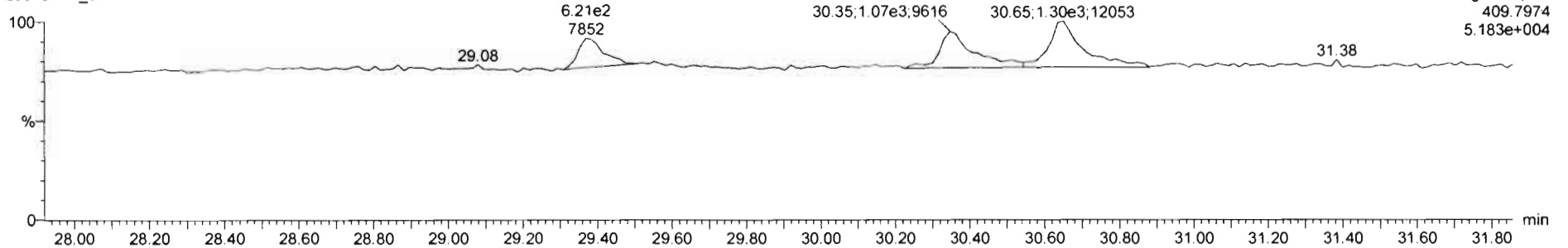
200131R1_6



F2: Voltage SIR, EI+
353.897
1.728e+007

DPE2

200131R1_6



F2: Voltage SIR, EI+
409.7974
5.183e+004

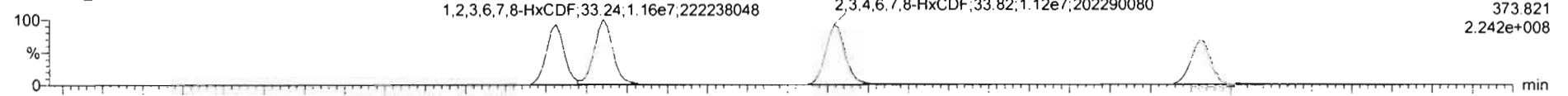
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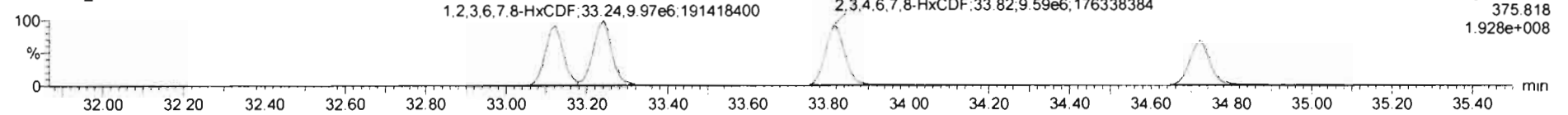
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1,2,3,4,7,8-HxCDF

200131R1_6

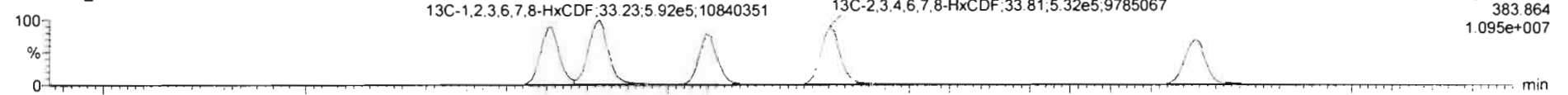


200131R1_6

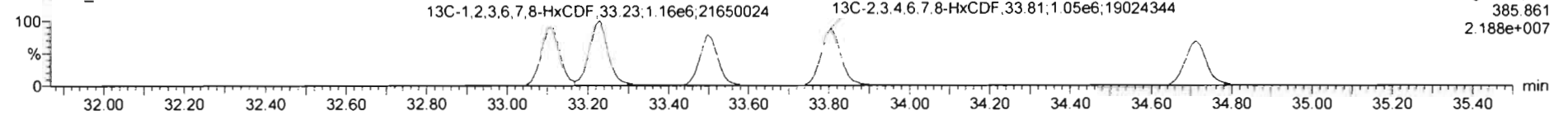


13C-1,2,3,4,7,8-HxCDF

200131R1_6

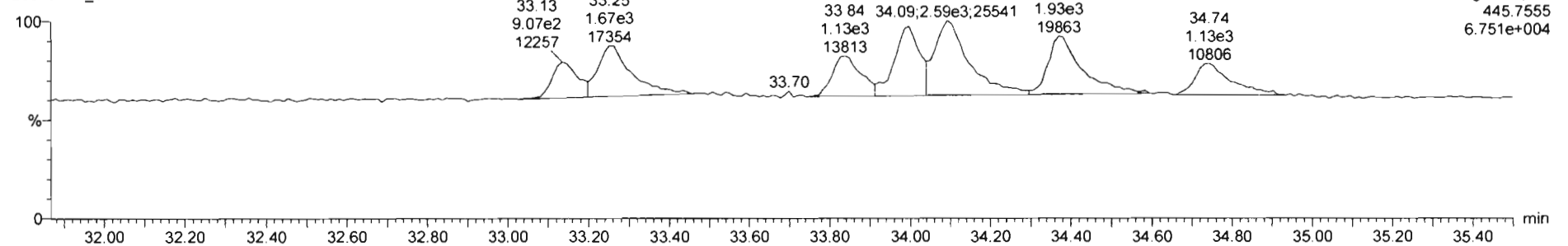


200131R1_6



DPE3

200131R1_6



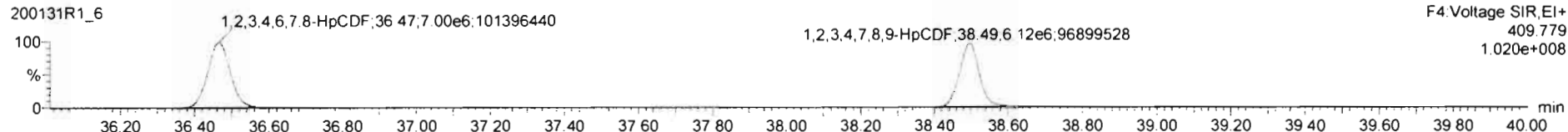
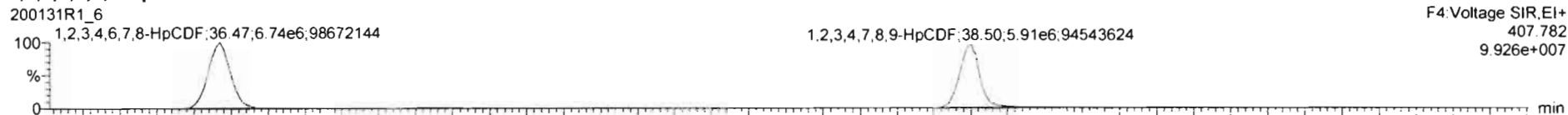
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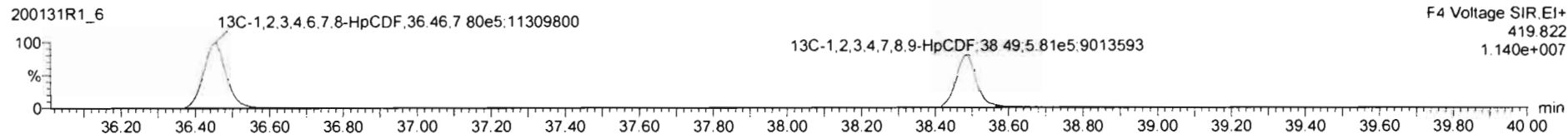
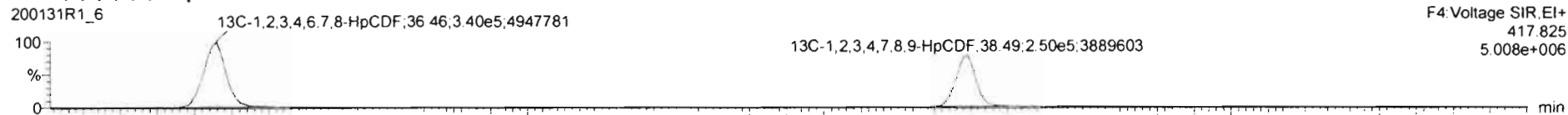
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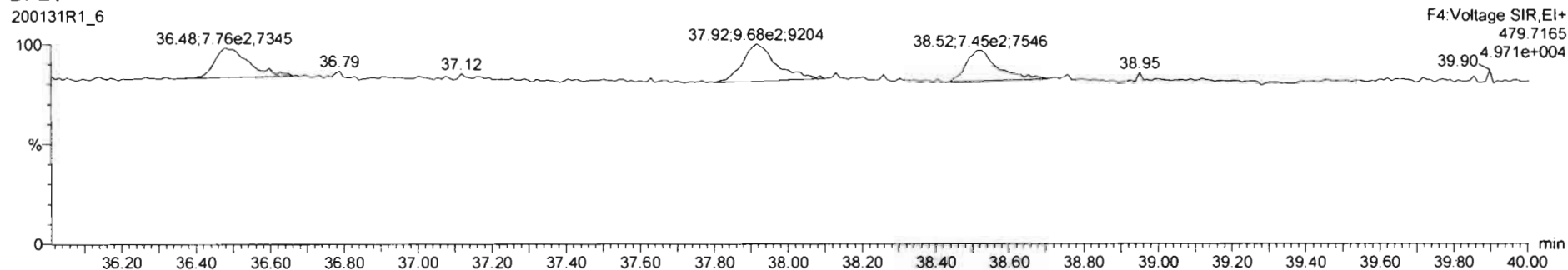
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

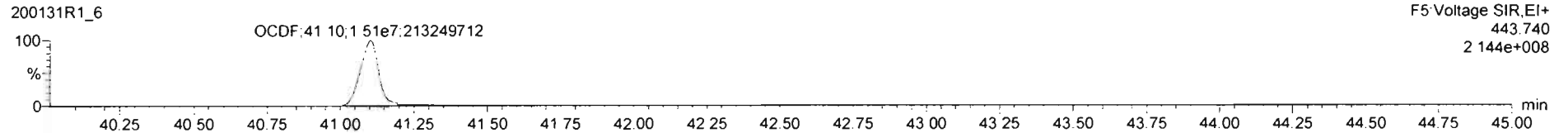
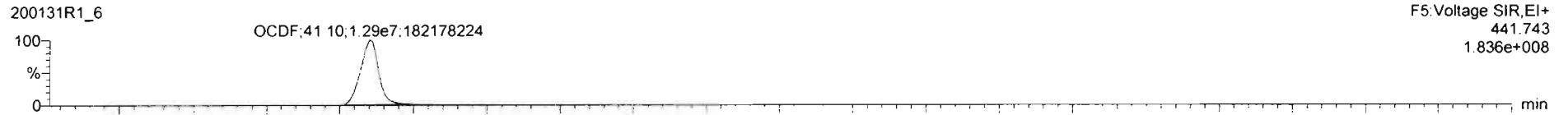


Dataset: Untitled

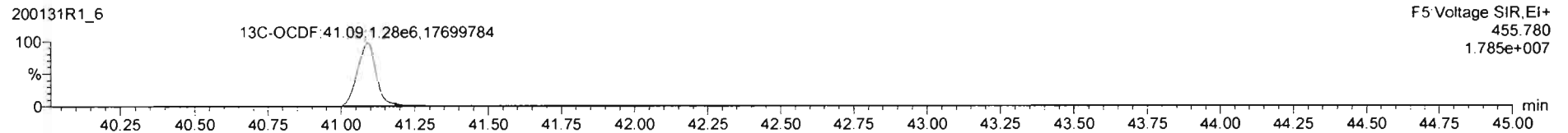
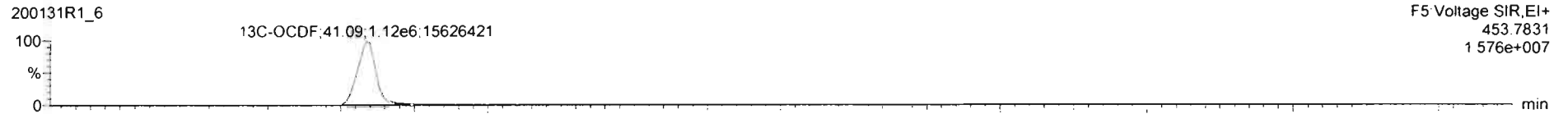
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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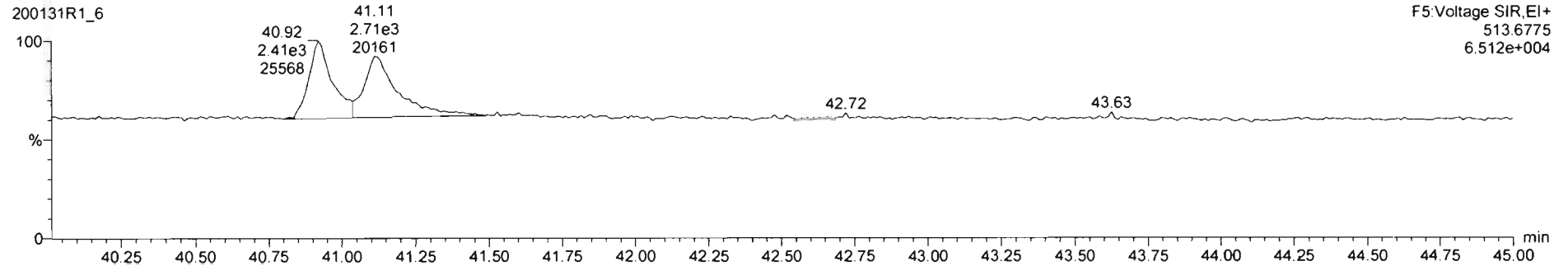
OCDF



13C-OCDF



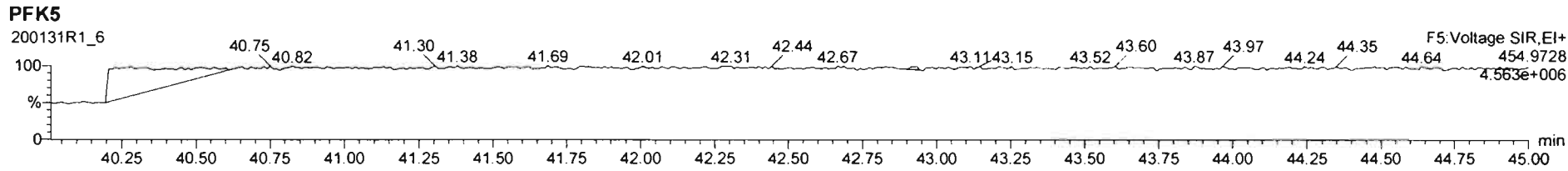
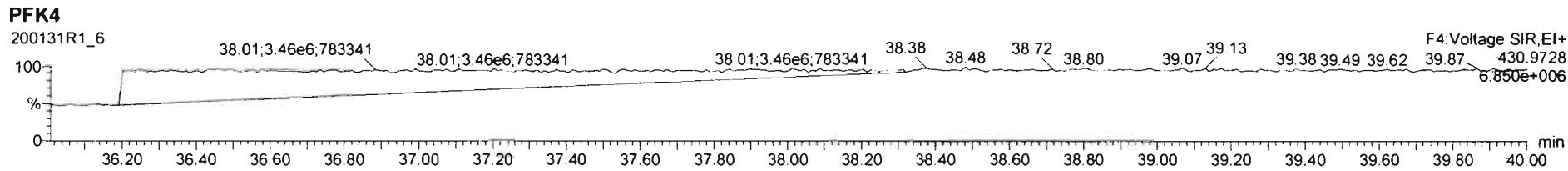
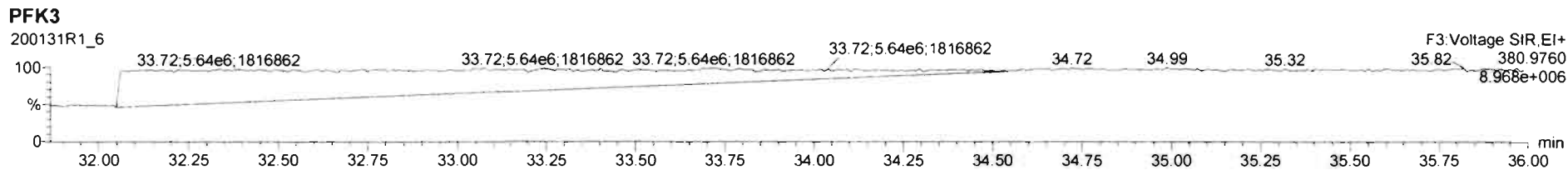
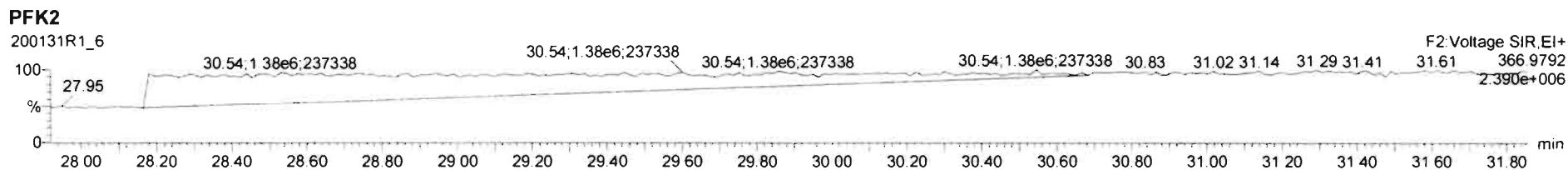
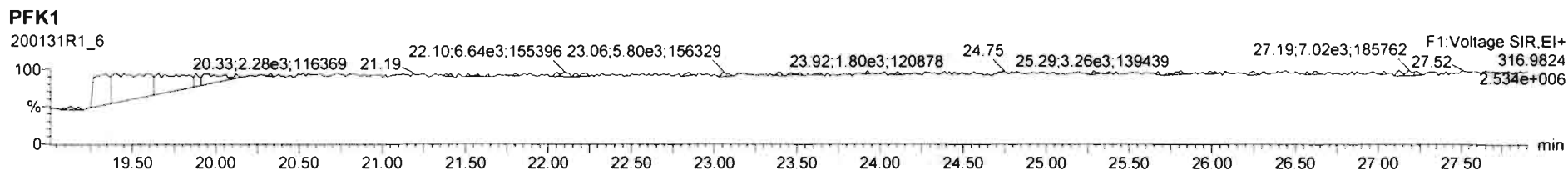
DPE5



Dataset: Untitled

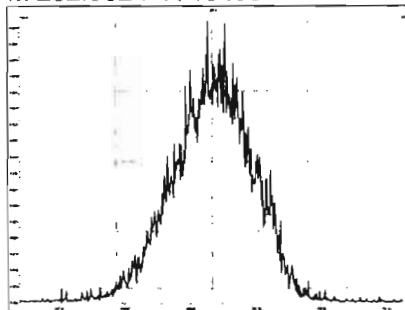
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

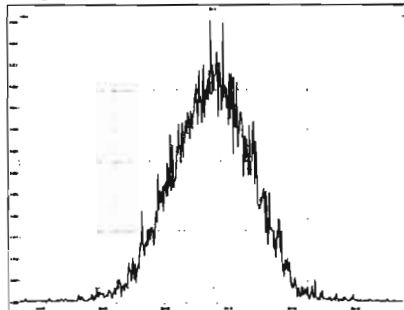


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

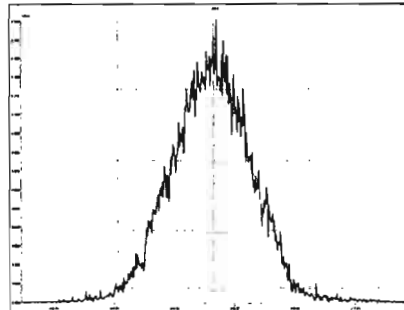
M 292.9824 R 10460



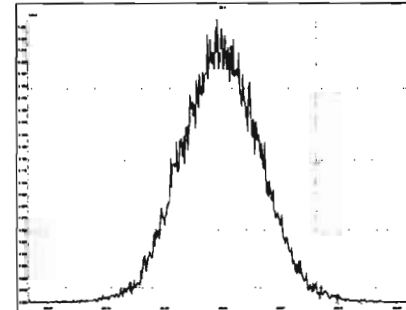
M 304.9824 R 11062



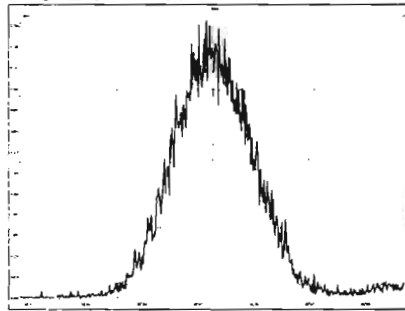
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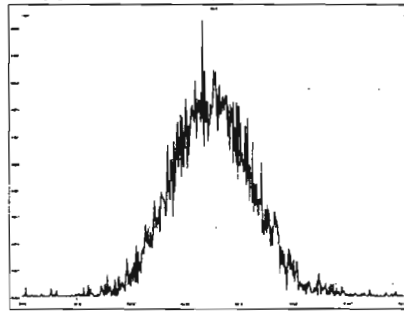
M 330.9792 R 10988



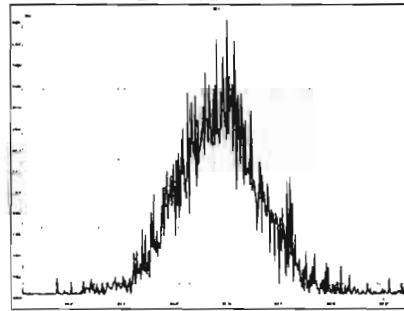
M 342.9792 R 10869



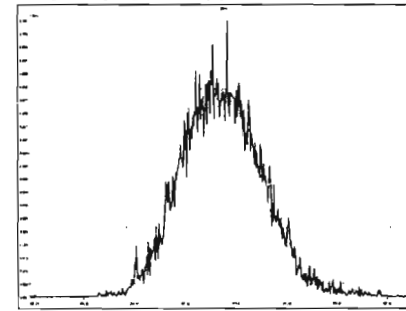
M 354.9792 R 11633



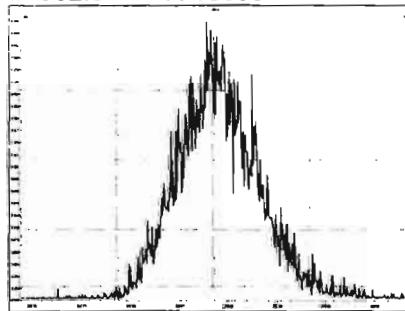
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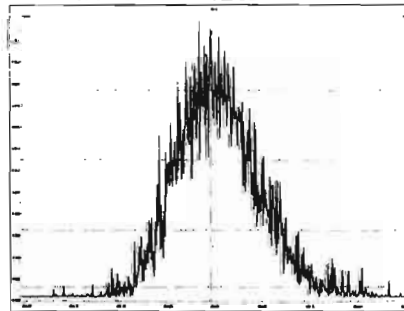
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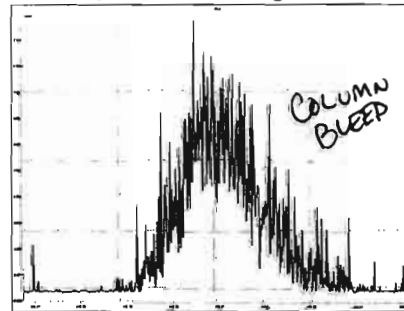
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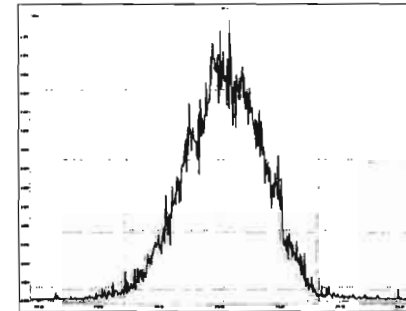
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M 416.9760 R 6578 ok

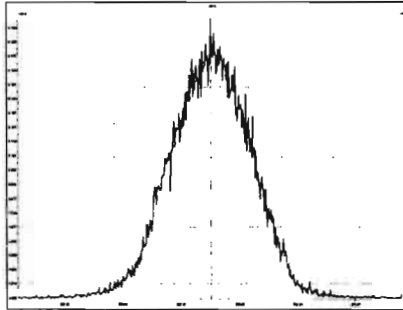


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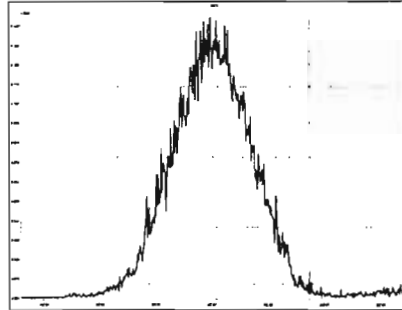


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

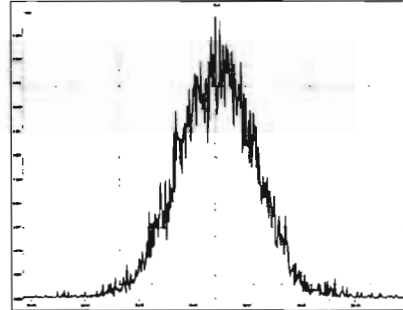
M 330.9792 R 11210



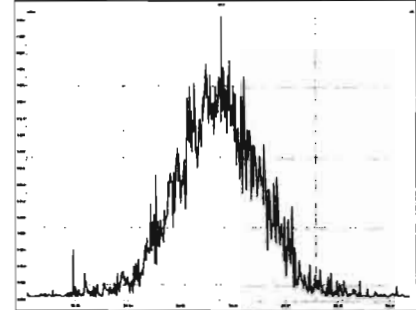
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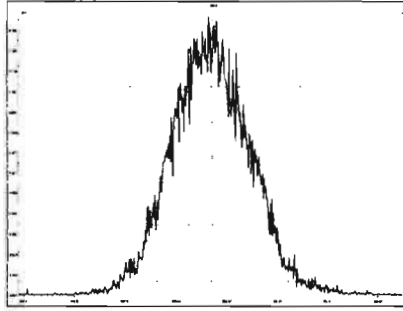
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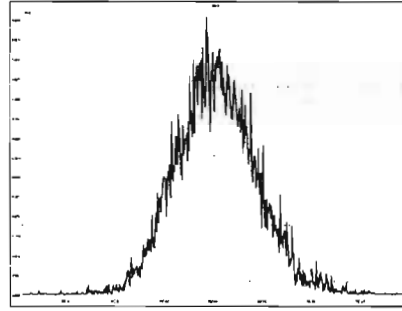
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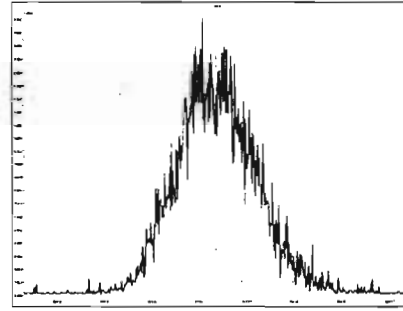
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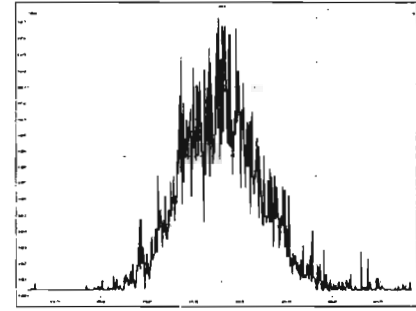
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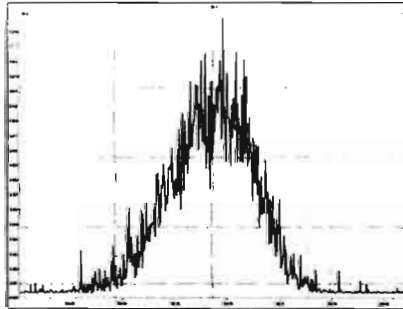
M 404.9760 R 10615



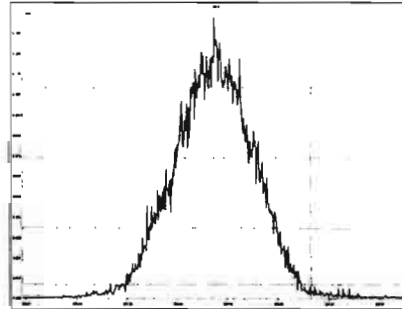
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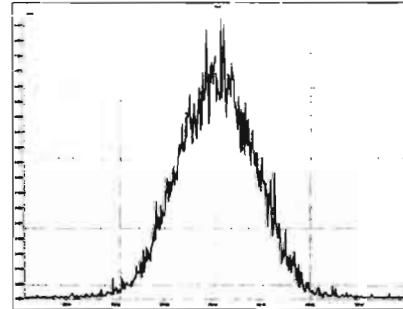
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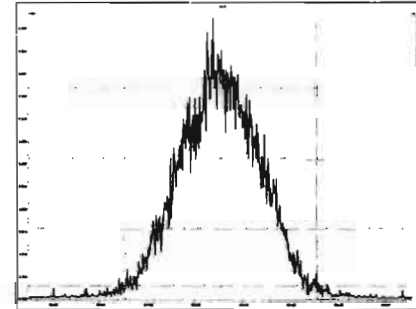
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M 392.9760 R 10930

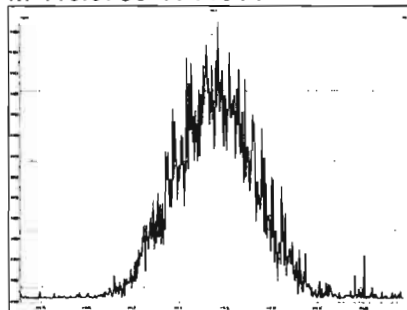


M 404.9760 R 11521

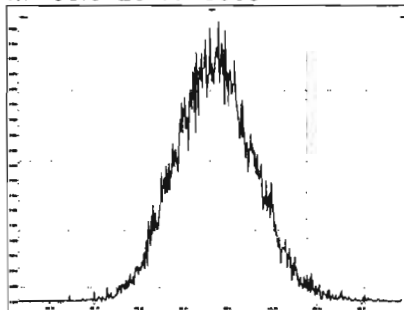


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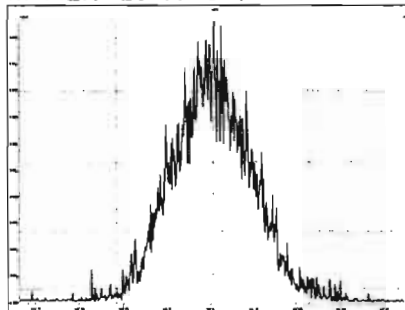
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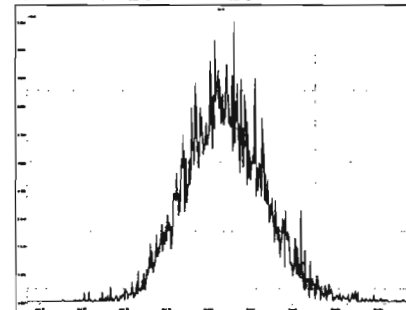
M 430.9728 R 10686



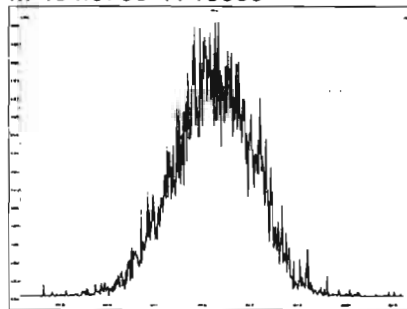
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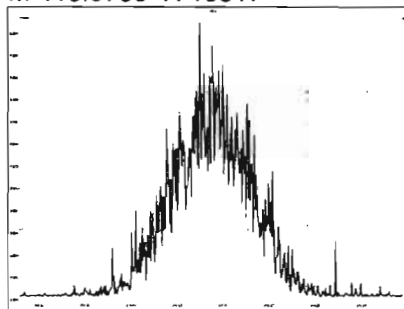
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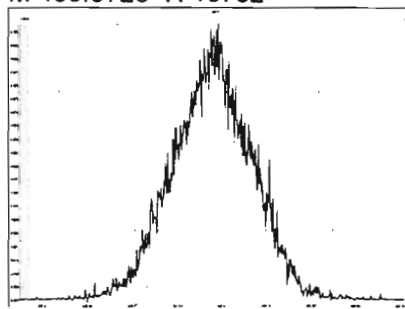
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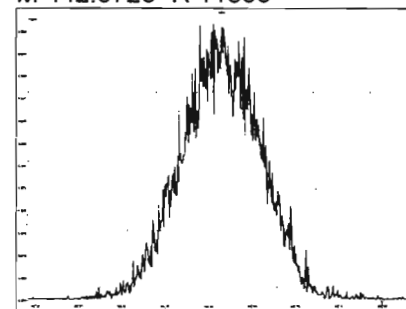
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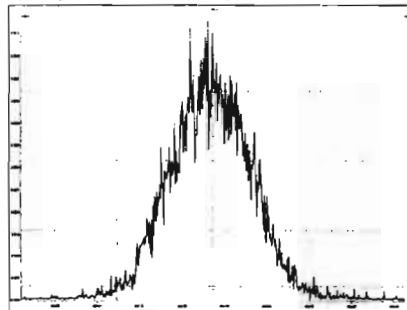
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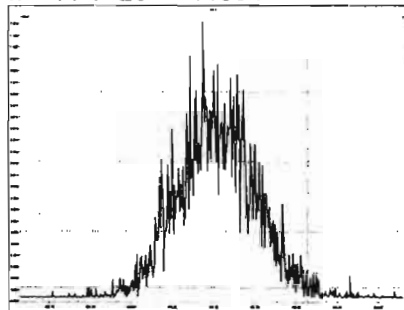
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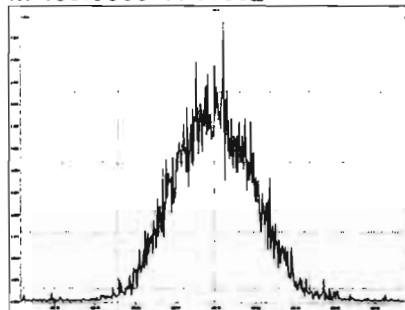
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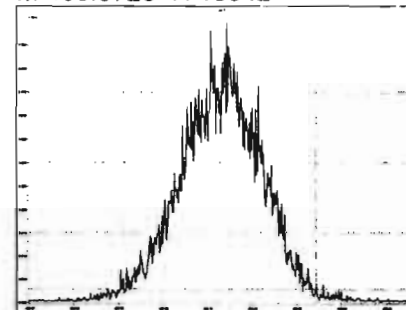
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M 480.9696 R 11062

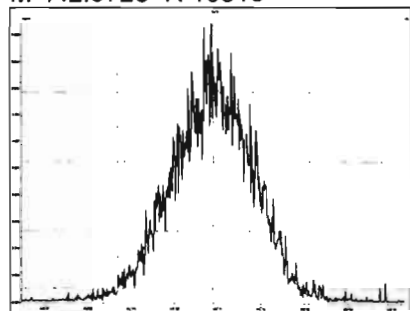


M 430.9728 R 10642

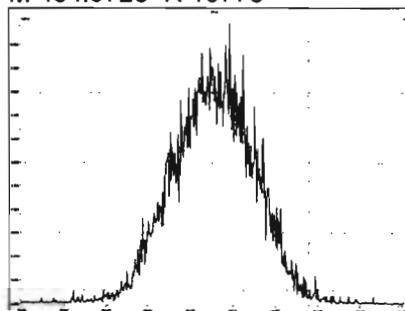


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

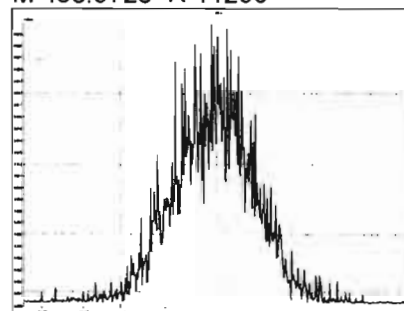
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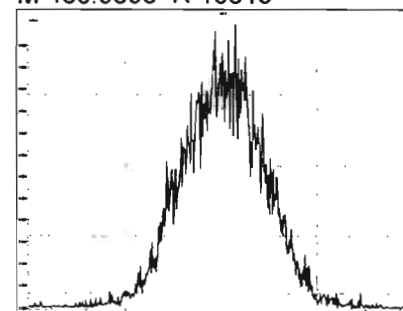
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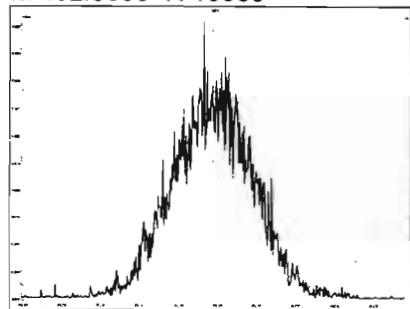
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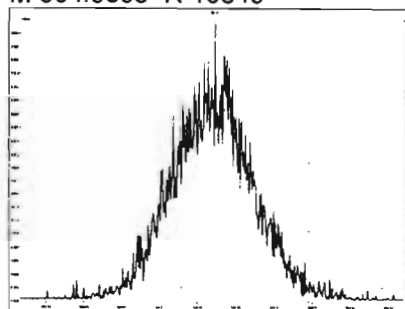
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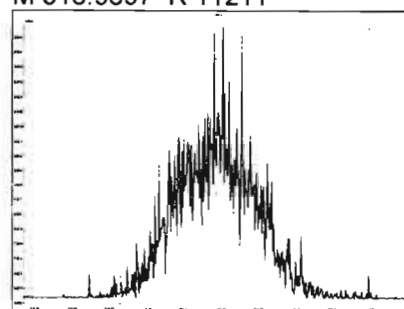
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M 504.9696 R 10849



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Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020

C7 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1,2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1,2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7,8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1,2,3,4,6,7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2,3,7,8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1,2,3,4,7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7,8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1,2,3,7,8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1,2,3,4,6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1,2,3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33.791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	37Cl-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Dataset: Untitled

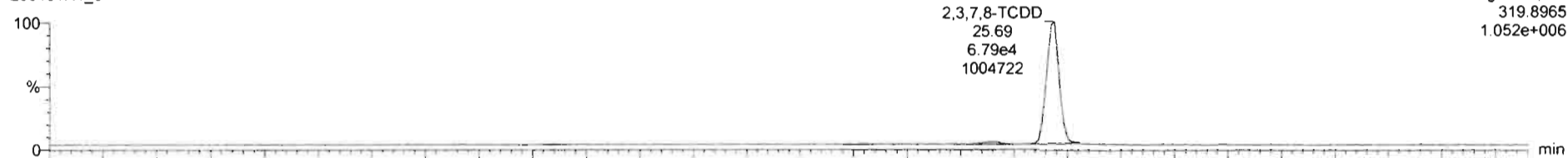
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

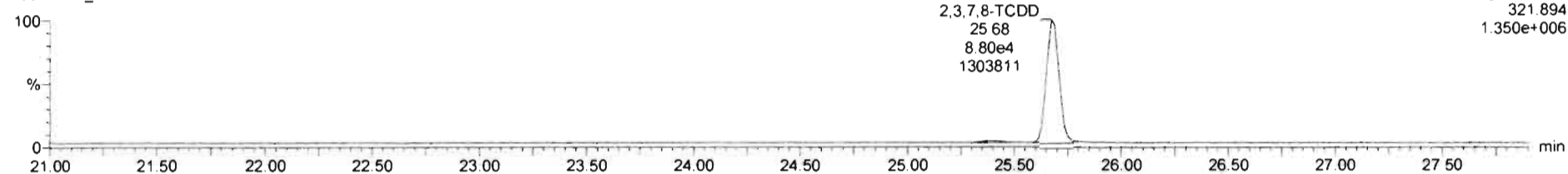
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200131R1_8

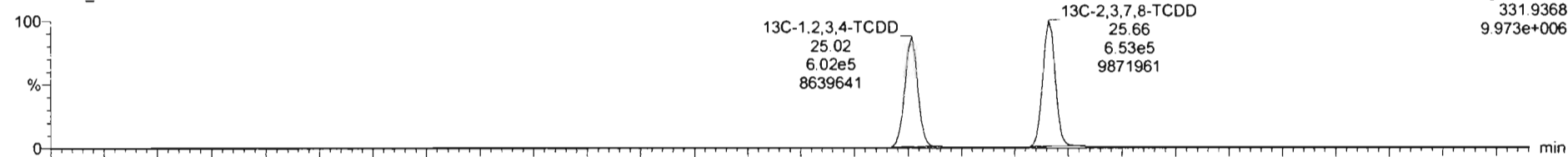


200131R1_8

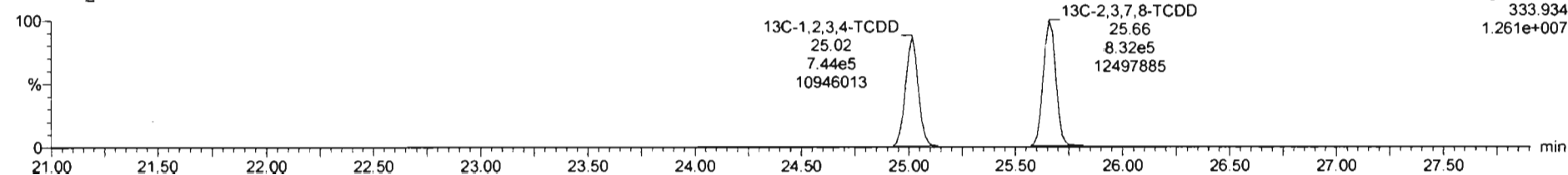


13C-2,3,7,8-TCDD

200131R1_8



200131R1_8



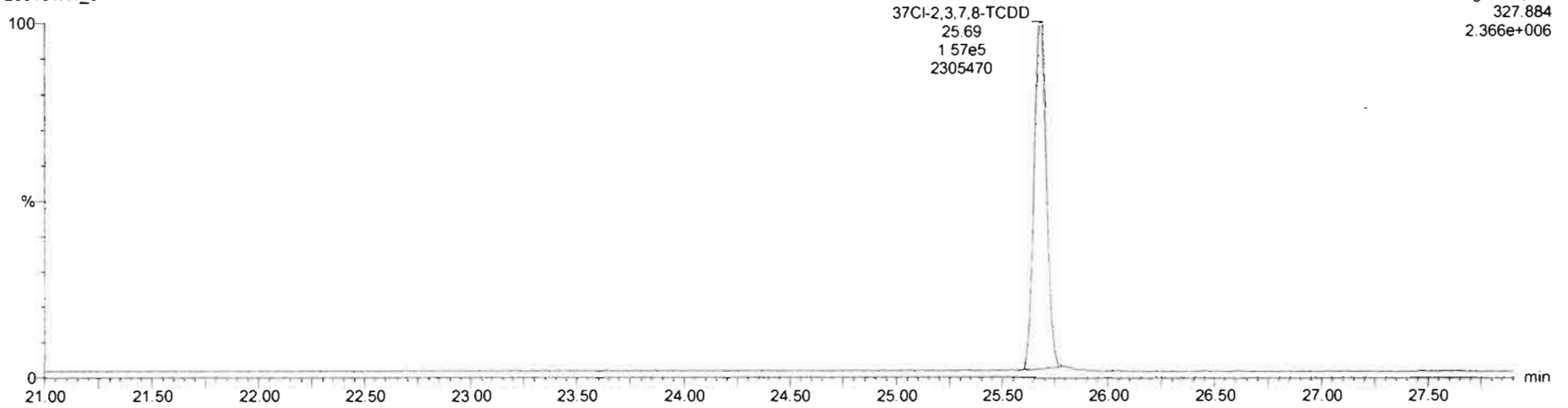
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

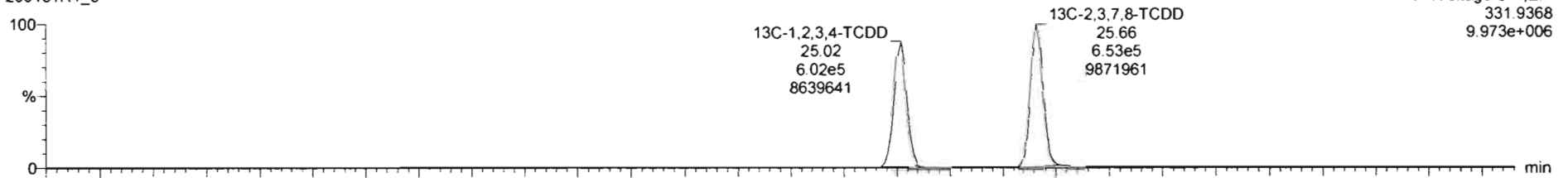
37Cl-2,3,7,8-TCDD

200131R1_8

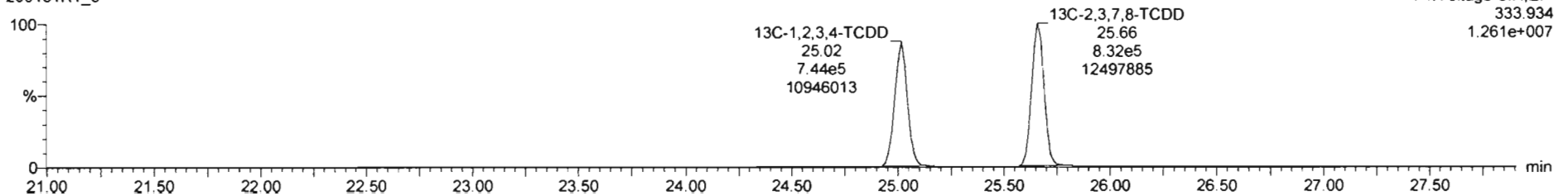


13C-1,2,3,4-TCDD

200131R1_8



200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

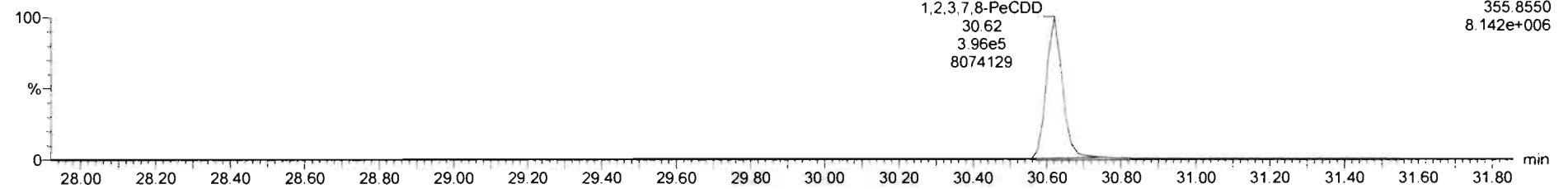
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1,2,3,7,8-PeCDD

200131R1_8

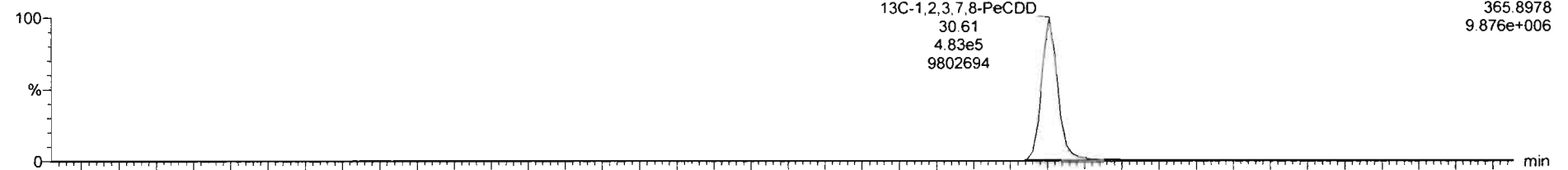


200131R1_8

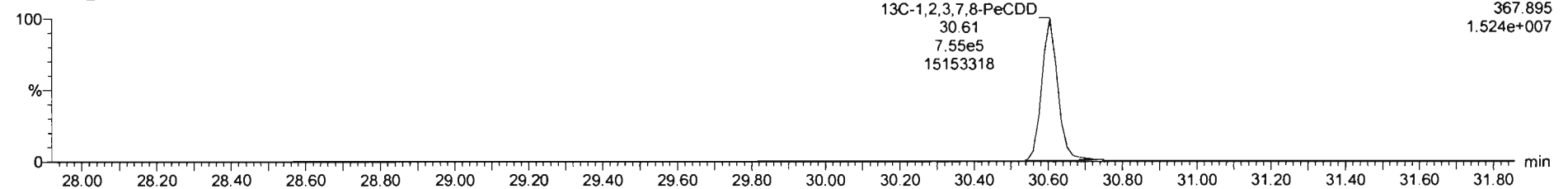


13C-1,2,3,7,8-PeCDD

200131R1_8



200131R1_8



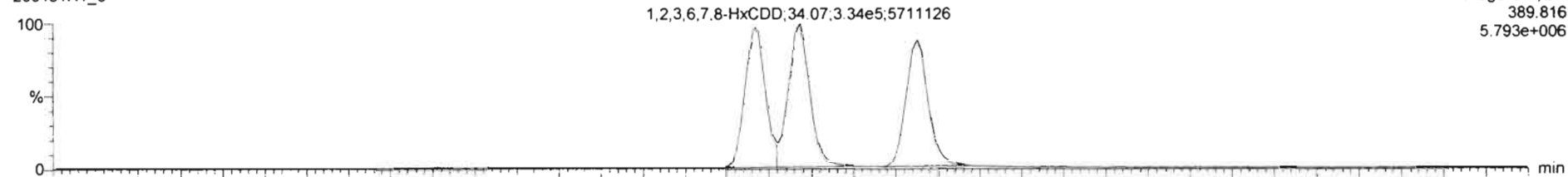
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

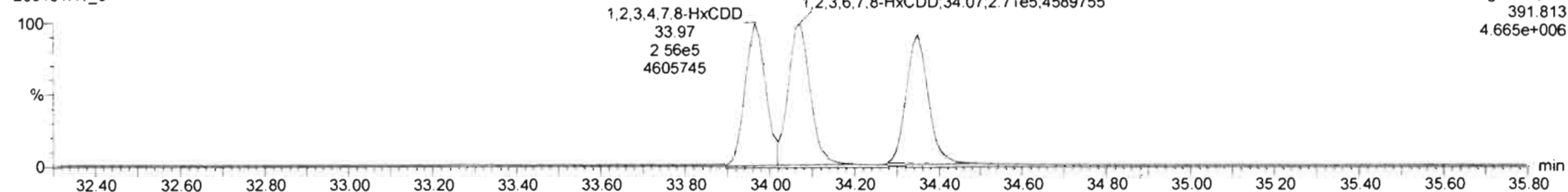
1,2,3,4,7,8-HxCDD

200131R1_8



F3:Voltage SIR,EI+
389.816
5.793e+006

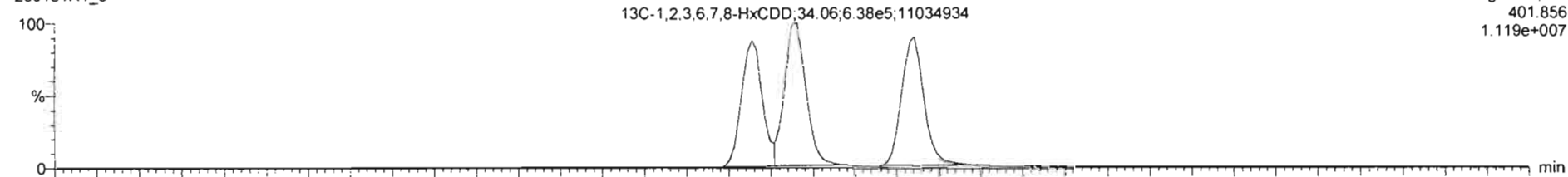
200131R1_8



F3:Voltage SIR,EI+
391.813
4.665e+006

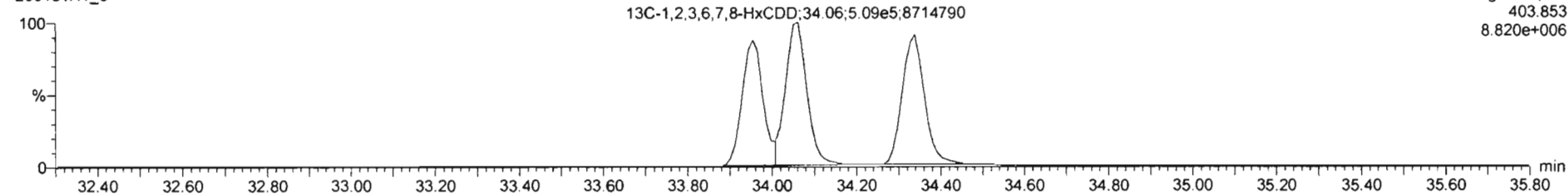
13C-1,2,3,4,7,8-HxCDD

200131R1_8



F3:Voltage SIR,EI+
401.856
1.119e+007

200131R1_8



F3:Voltage SIR,EI+
403.853
8.820e+006

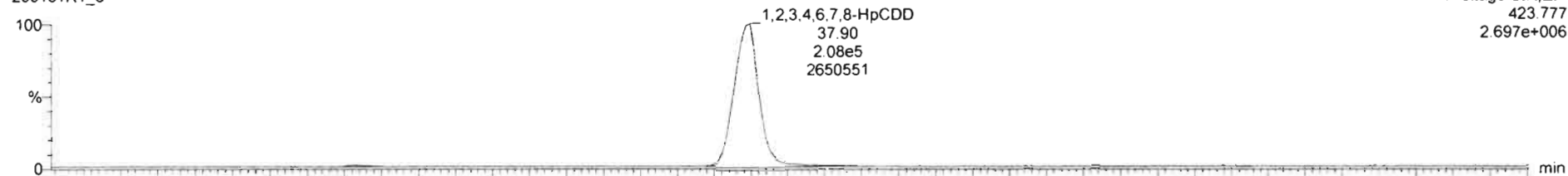
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

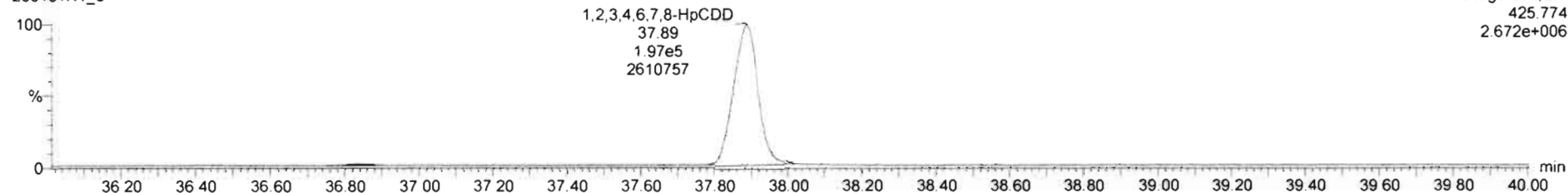
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,4,6,7,8-HpCDD

200131R1_8

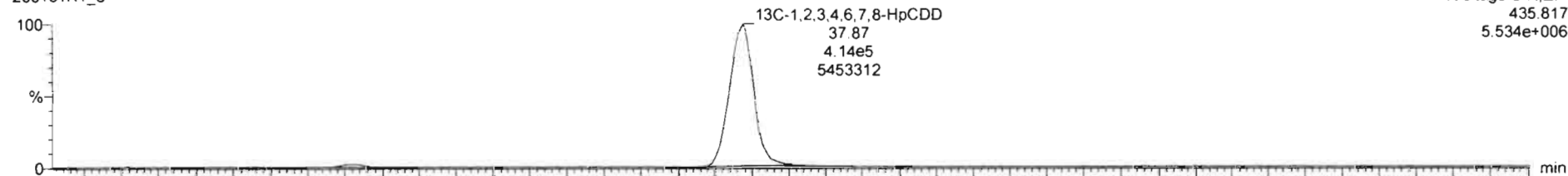


200131R1_8

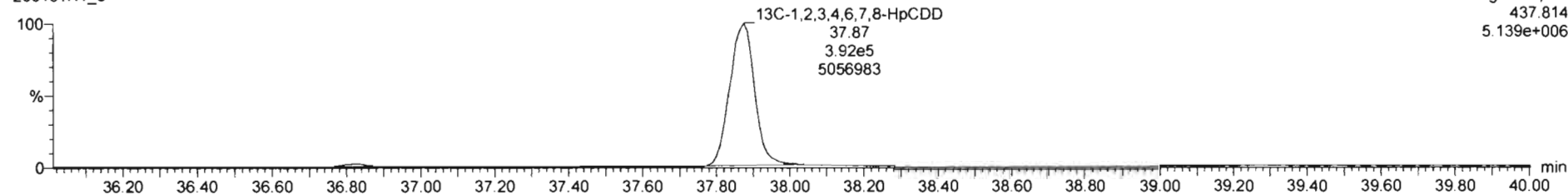


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_8



200131R1_8

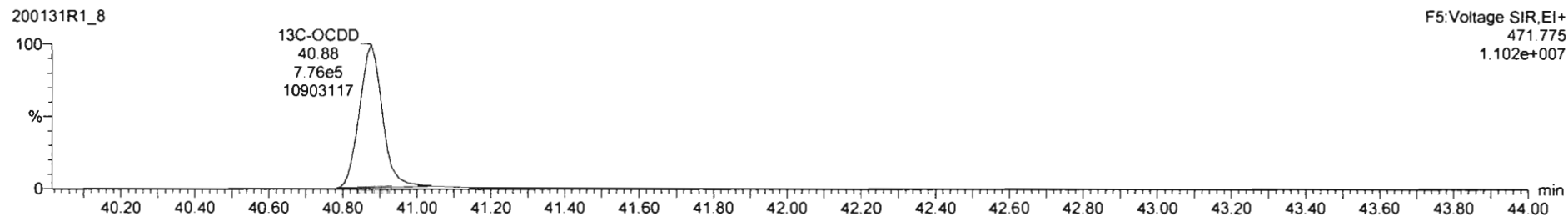
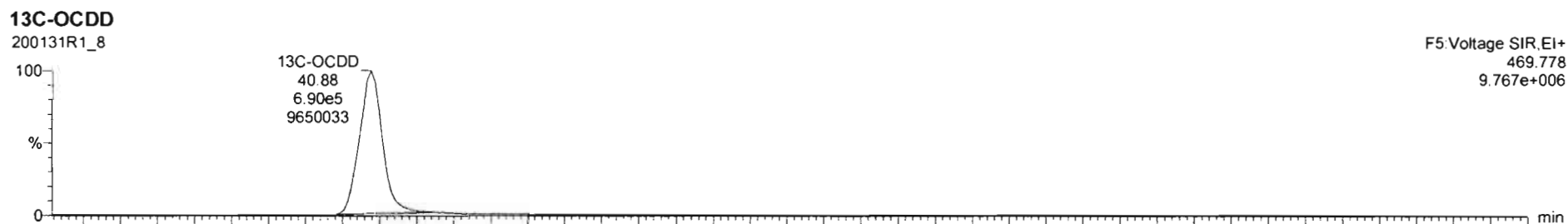
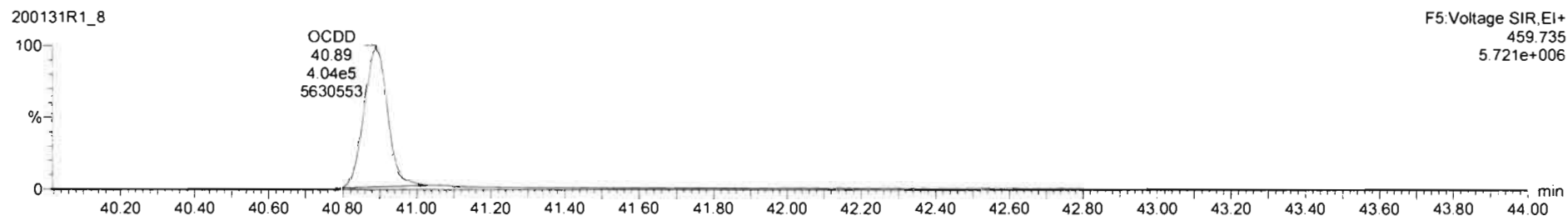
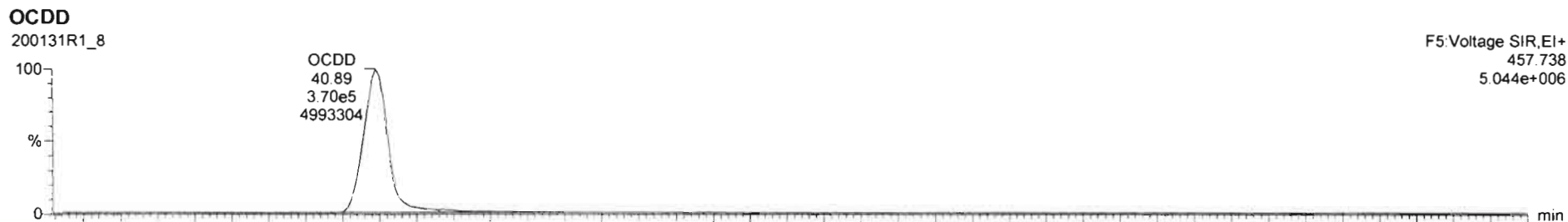


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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

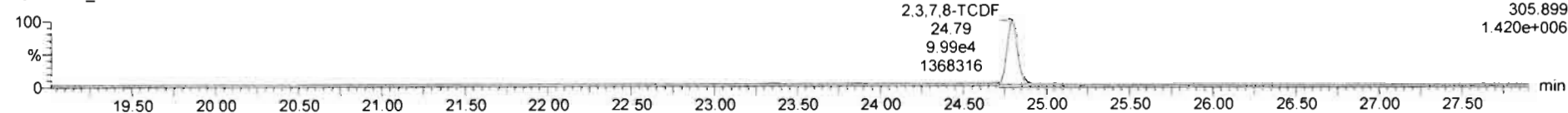
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2,3,7,8-TCDF

200131R1_8

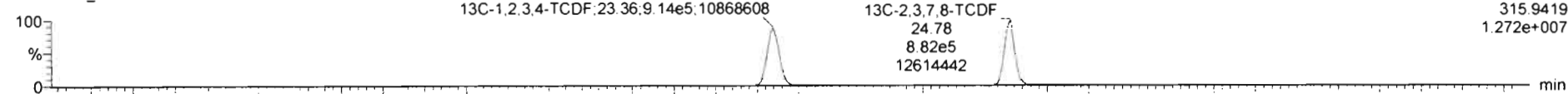


200131R1_8

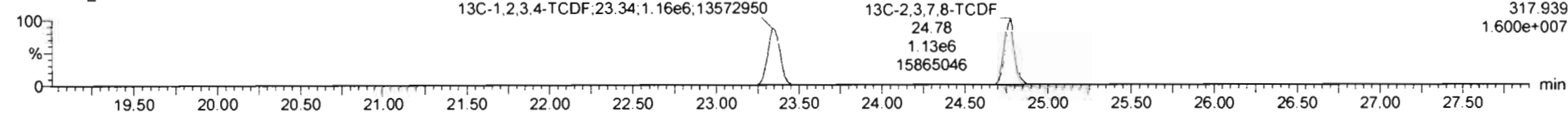


13C-2,3,7,8-TCDF

200131R1_8

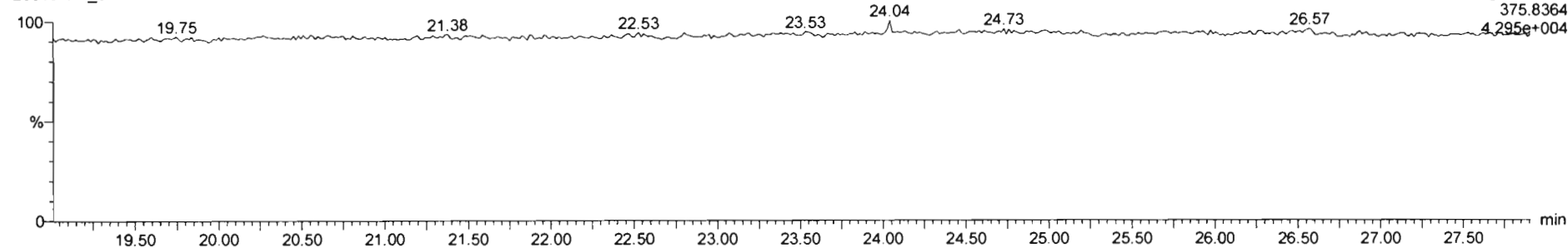


200131R1_8



DPE1

200131R1_8



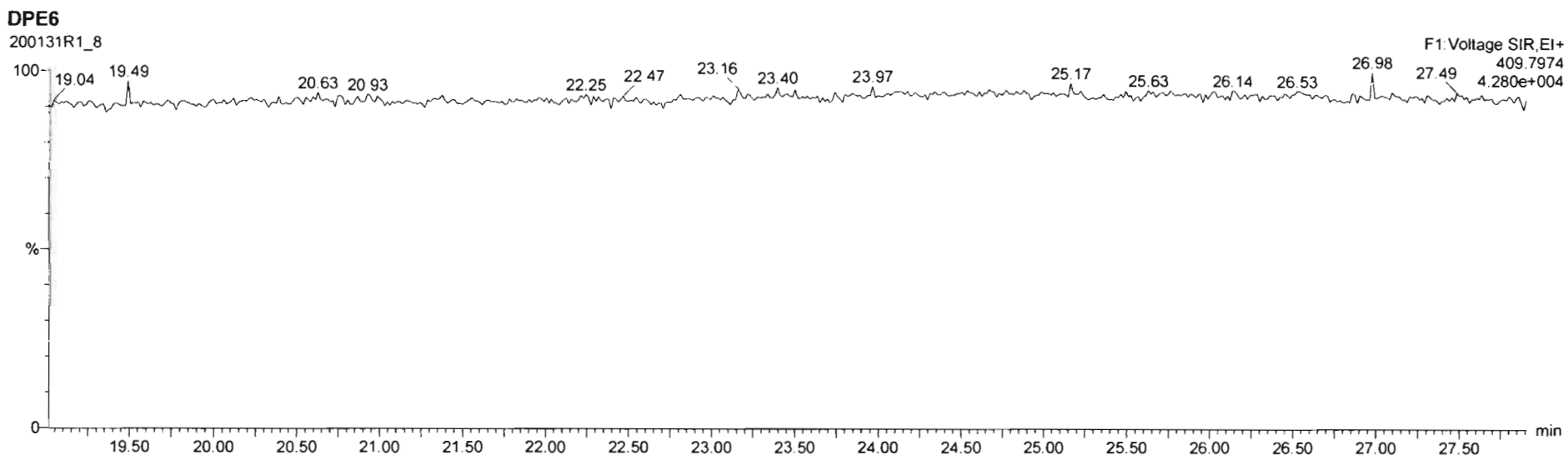
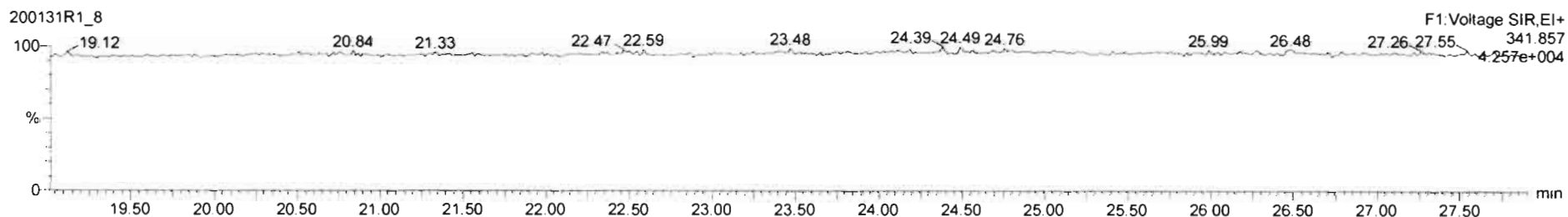
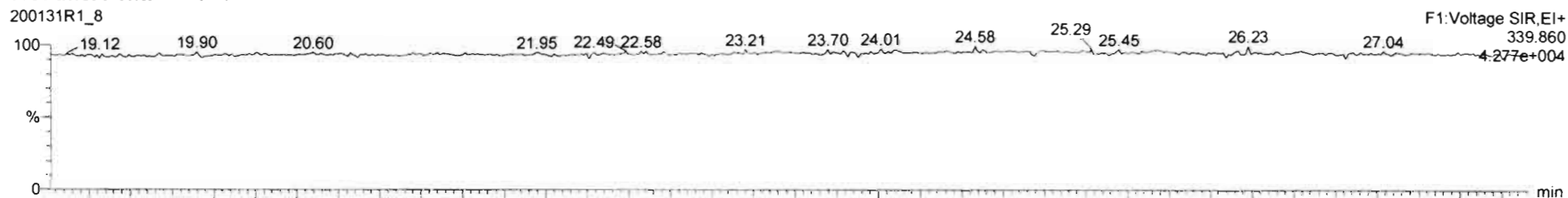
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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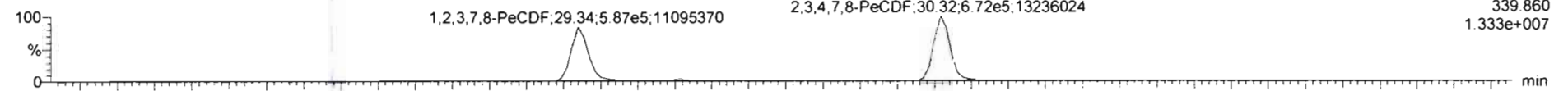
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

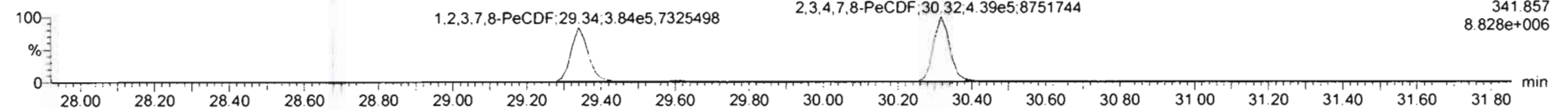
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1,2,3,7,8-PeCDF

200131R1_8

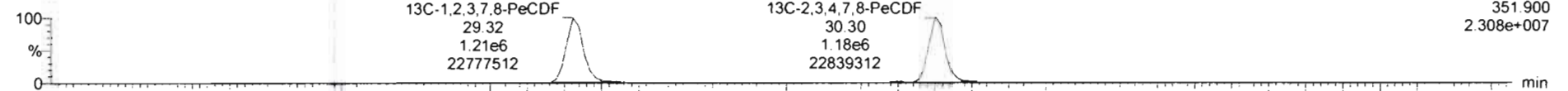


200131R1_8

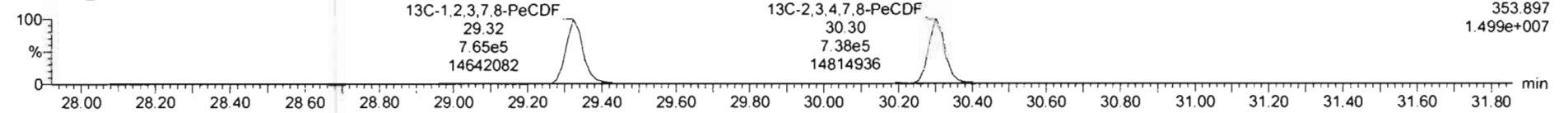


13C-1,2,3,7,8-PeCDF

200131R1_8

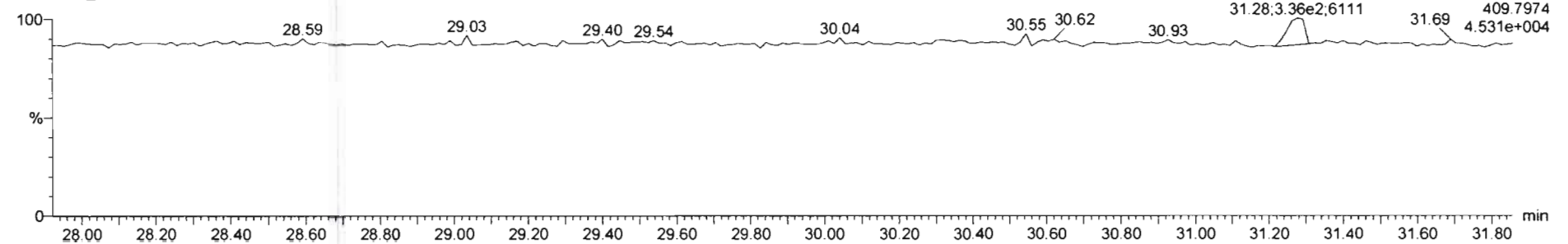


200131R1_8



DPE2

200131R1_8



Dataset: Untitled

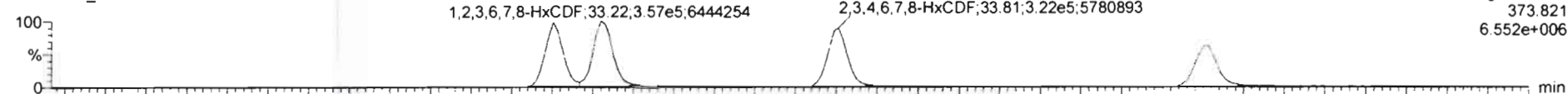
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

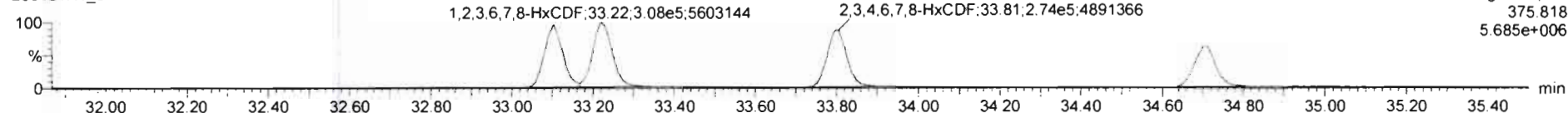
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,4,7,8-HxCDF

200131R1_8

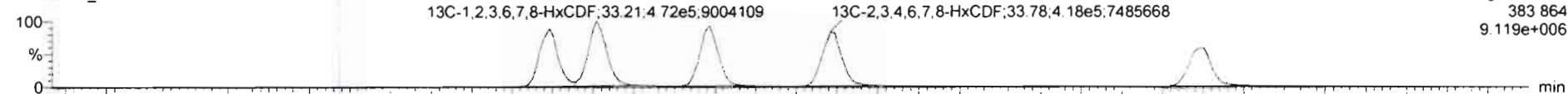


200131R1_8

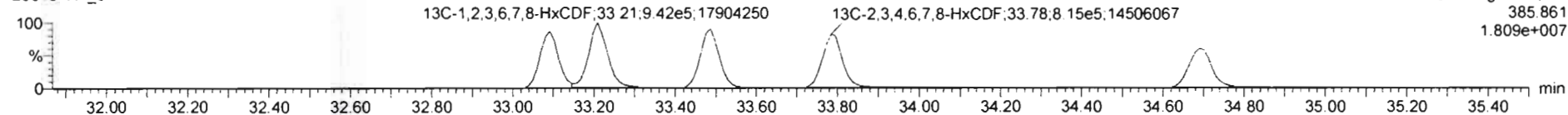


13C-1,2,3,4,7,8-HxCDF

200131R1_8

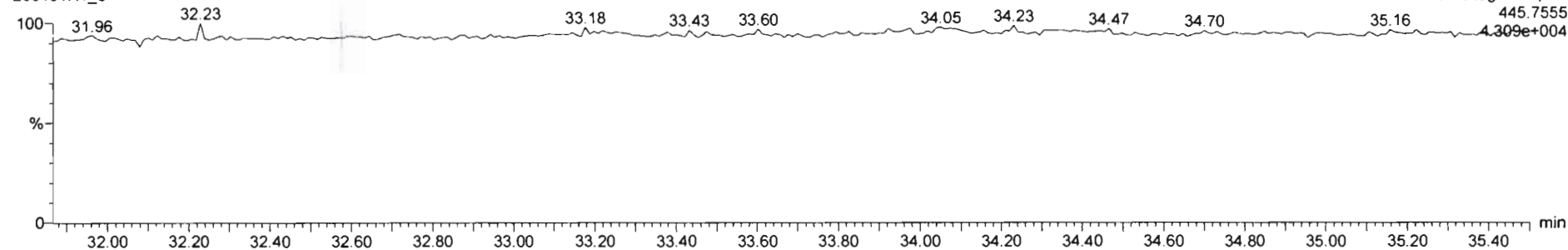


200131R1_8



DPE3

200131R1_8



Dataset: Untitled

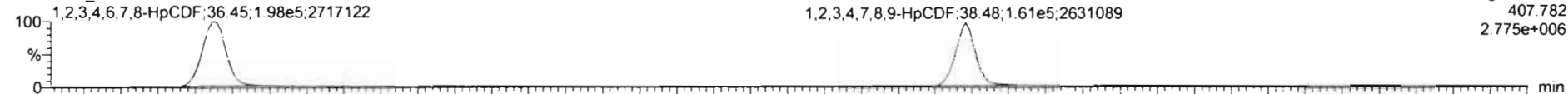
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

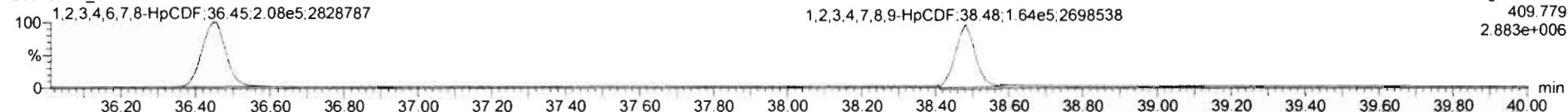
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1,2,3,4,6,7,8-HpCDF

200131R1_8

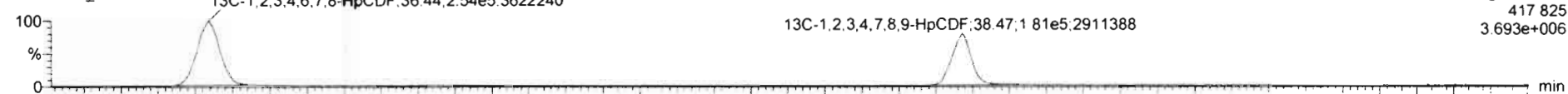


200131R1_8

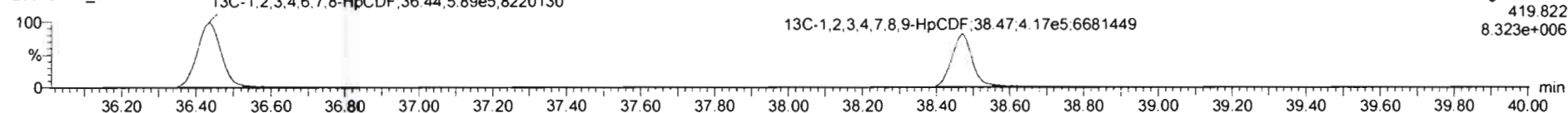


13C-1,2,3,4,6,7,8-HpCDF

200131R1_8

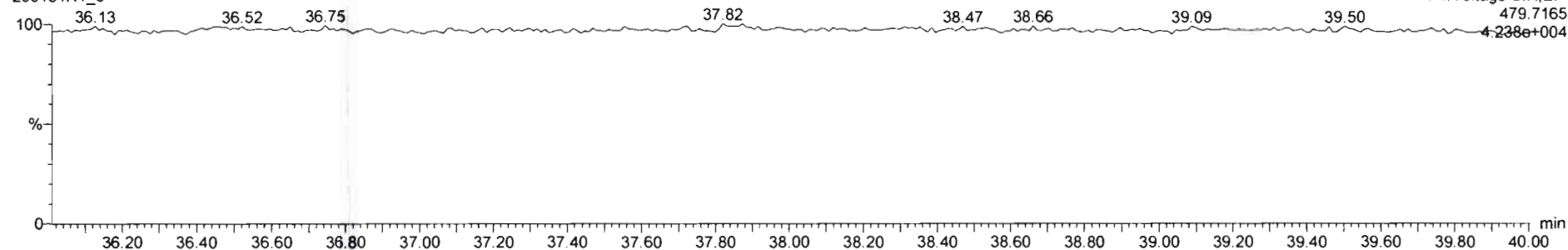


200131R1_8



DPE4

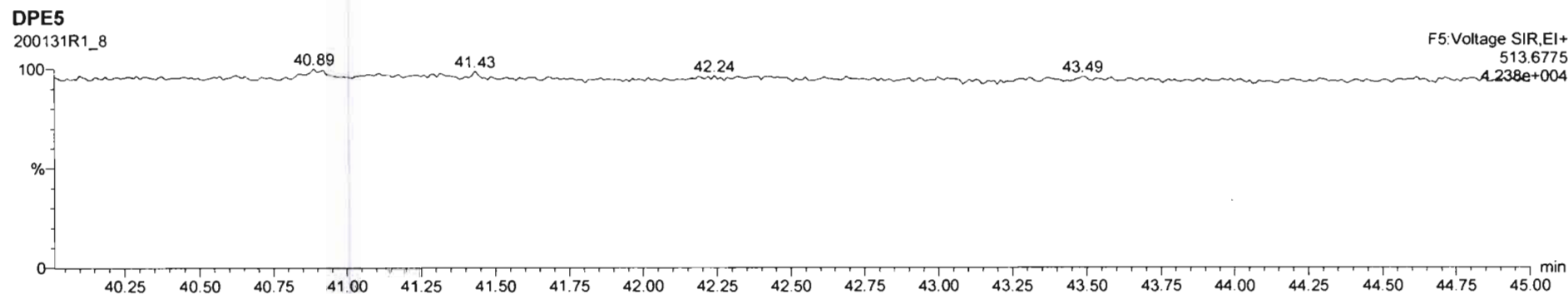
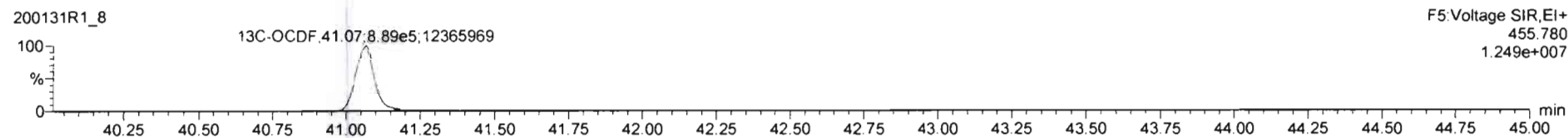
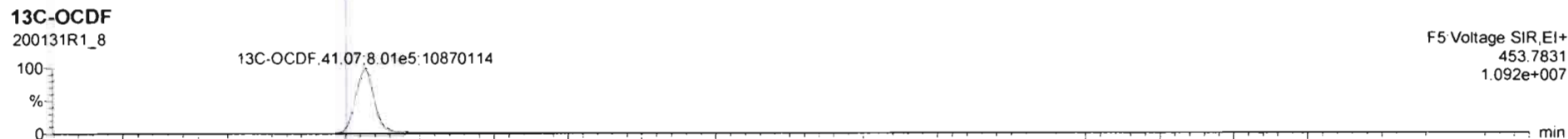
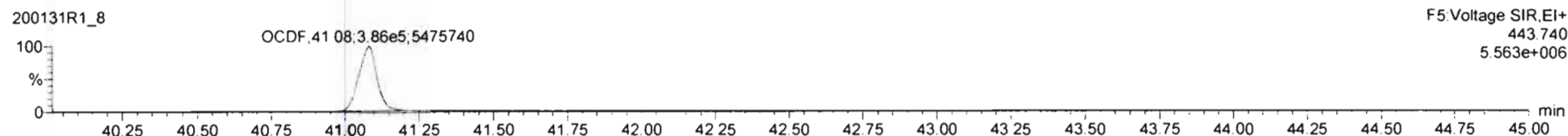
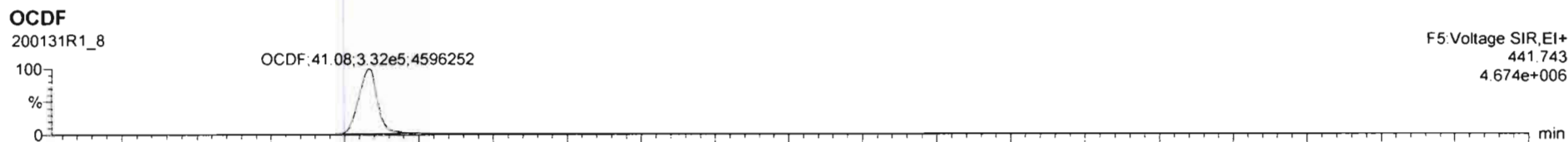
200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

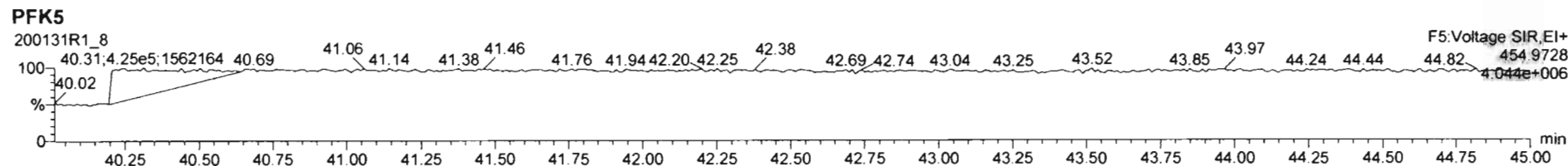
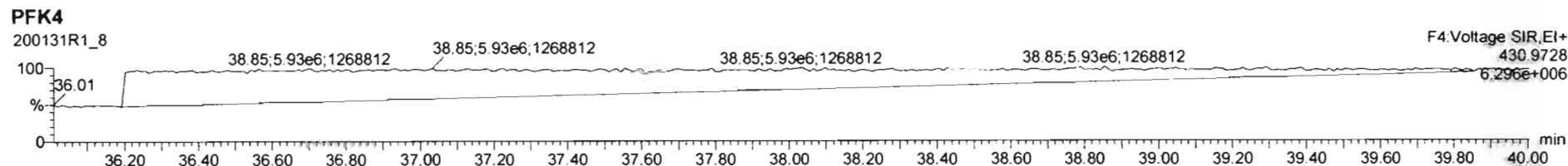
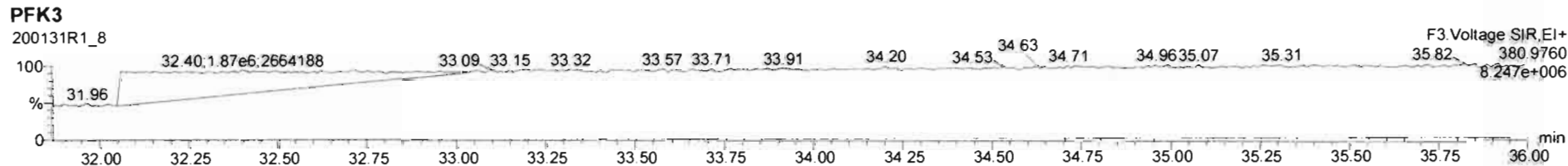
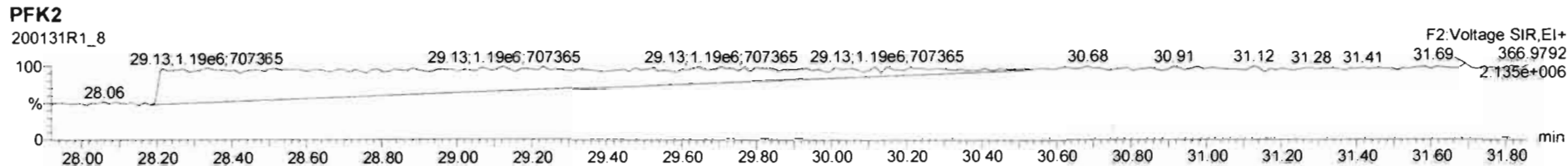
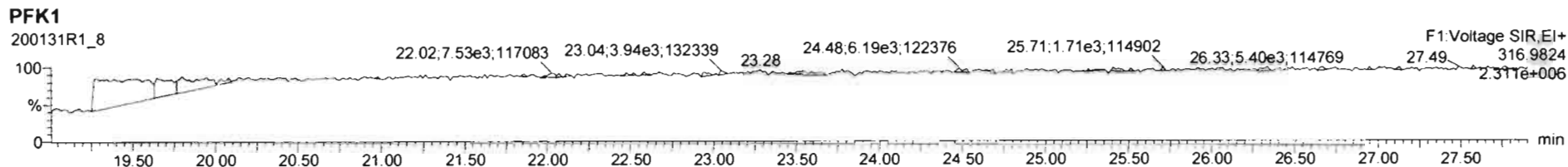


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

GRB 03/09/2020

C1 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 11:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

Response Factor: 0.983462

RRF SD: 0.0620764, Relative SD: 6.31202

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250	0.88	NO	25.83	1.001	2.55e3	1.02e6	0.255	1.8	1.00	MM
2	200306R2_2	0.500	0.79	NO	25.80	1.001	5.56e3	1.04e6	0.545	9.0	1.07	bb
3	200306R2_3	2.00	0.77	NO	25.81	1.001	2.04e4	9.83e5	2.11	5.3	1.04	bb
4	200306R2_4	10.0	0.80	NO	25.81	1.001	1.07e5	1.15e6	9.48	-5.2	0.933	db
5	200306R2_5	40.0	0.77	NO	25.80	1.001	4.79e5	1.30e6	37.6	-5.9	0.925	bb
6	200306R2_6	300	0.79	NO	25.80	1.001	3.75e6	1.34e6	285	-5.0	0.934	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.921241

RRF SD: 0.0620739, Relative SD: 6.73807

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	0.68	NO	31.00	1.000	7.57e3	7.13e5	1.15	-7.8	0.849	MM
2	200306R2_2	2.50	0.65	NO	30.97	1.000	1.74e4	6.98e5	2.70	8.2	0.996	bb
3	200306R2_3	10.0	0.68	NO	30.99	1.000	6.63e4	6.63e5	10.8	8.5	0.999	bb
4	200306R2_4	50.0	0.63	NO	30.99	1.000	3.98e5	9.00e5	48.0	-4.0	0.884	bb
5	200306R2_5	200	0.63	NO	30.99	1.000	1.71e6	9.49e5	195	-2.4	0.899	bb
6	200306R2_6	1500	0.63	NO	30.99	1.000	1.46e7	1.08e6	1460	-2.3	0.900	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.13254

RRF SD: 0.050207, Relative SD: 4.43315

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.29	NO	34.40	1.001	7.33e3	5.37e5	1.21	-3.6	1.09	bd
2	200306R2_2	2.50	1.25	NO	34.37	1.001	1.58e4	5.23e5	2.66	6.4	1.21	bd
3	200306R2_3	10.0	1.25	NO	34.37	1.000	5.85e4	4.95e5	10.4	4.4	1.18	bd
4	200306R2_4	50.0	1.24	NO	34.38	1.001	3.69e5	6.79e5	48.0	-4.0	1.09	bd
5	200306R2_5	200	1.24	NO	34.37	1.000	1.50e6	6.81e5	194	-3.0	1.10	bd
6	200306R2_6	1500	1.24	NO	34.38	1.000	1.42e7	8.39e5	1500	-0.3	1.13	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.984449

RRF SD: 0.0570908, Relative SD: 5.79927

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.21	NO	34.49	1.000	7.49e3	6.23e5	1.22	-2.3	0.961	MM
2	200306R2_2	2.50	1.23	NO	34.47	1.000	1.71e4	6.45e5	2.69	7.8	1.06	db
3	200306R2_3	10.0	1.24	NO	34.48	1.000	6.35e4	6.06e5	10.6	6.4	1.05	db
4	200306R2_4	50.0	1.26	NO	34.48	1.000	3.94e5	8.29e5	48.3	-3.4	0.951	db
5	200306R2_5	200	1.25	NO	34.47	1.000	1.68e6	8.67e5	197	-1.6	0.969	db
6	200306R2_6	1500	1.24	NO	34.49	1.001	1.45e7	1.05e6	1400	-6.8	0.917	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.967395

RRF SD: 0.0672904, Relative SD: 6.95583

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.19	NO	34.76	1.000	6.08e3	5.57e5	1.13	-9.9	0.872	MM
2	200306R2_2	2.50	1.24	NO	34.74	1.001	1.51e4	5.80e5	2.70	7.9	1.04	bb

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.23	NO	34.74	1.000	5.71e4	5.46e5	10.8	8.1	1.05	bb
4	200306R2_4	50.0	1.23	NO	34.74	1.000	3.51e5	7.47e5	48.6	-2.9	0.940	bb
5	200306R2_5	200	1.25	NO	34.74	1.000	1.47e6	7.83e5	194	-2.8	0.940	bb
6	200306R2_6	1500	1.23	NO	34.75	1.000	1.34e7	9.31e5	1490	-0.5	0.963	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 1.00606

RRF SD: 0.0598777, Relative SD: 5.95172

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.04	NO	38.23	1.000	4.50e3	3.74e5	1.19	-4.5	0.960	MM
2	200306R2_2	2.50	1.03	NO	38.17	1.000	1.17e4	4.34e5	2.69	7.6	1.08	bb
3	200306R2_3	10.0	1.02	NO	38.18	1.000	4.15e4	3.84e5	10.7	7.4	1.08	bb
4	200306R2_4	50.0	1.03	NO	38.21	1.000	2.63e5	5.52e5	47.4	-5.1	0.954	bb
5	200306R2_5	200	1.04	NO	38.21	1.001	1.14e6	5.89e5	192	-3.9	0.967	bb
6	200306R2_6	1500	1.03	NO	38.22	1.001	9.92e6	6.67e5	1480	-1.4	0.992	bb

Compound name: OCDD

Response Factor: 1.05145

RRF SD: 0.114587, Relative SD: 10.898

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	2.50	0.84	NO	41.25	1.000	1.06e4	7.05e5	2.86	14.2	1.20	MM
2	200306R2_2	5.00	0.98	NO	41.22	1.000	2.24e4	7.62e5	5.60	12.0	1.18	MM
3	200306R2_3	20.0	0.87	NO	41.23	1.000	7.58e4	7.16e5	20.1	0.7	1.06	bb
4	200306R2_4	100	0.90	NO	41.23	1.000	4.62e5	9.75e5	90.2	-9.8	0.948	bb
5	200306R2_5	400	0.89	NO	41.22	1.000	2.22e6	1.17e6	360	-10.0	0.946	bb
6	200306R2_6	3000	0.89	NO	41.24	1.000	2.08e7	1.42e6	2790	-7.1	0.977	MM

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	bb

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.56	NO	30.67	1.000	1.02e5	9.68e5	10.5	5.1	1.05	bb
4	200306R2_4	50.0	1.58	NO	30.67	1.000	6.26e5	1.27e6	49.3	-1.4	0.990	bb
5	200306R2_5	200	1.54	NO	30.67	1.000	2.65e6	1.36e6	195	-2.6	0.978	bb
6	200306R2_6	1500	1.53	NO	30.68	1.000	2.24e7	1.53e6	1460	-2.8	0.975	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 1.03807

RRF SD: 0.0538106, Relative SD: 5.18374

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.12	NO	33.54	1.001	8.84e3	7.10e5	1.20	-4.0	0.996	bd
2	200306R2_2	2.50	1.19	NO	33.51	1.000	1.92e4	6.91e5	2.68	7.2	1.11	bd
3	200306R2_3	10.0	1.26	NO	33.52	1.000	7.18e4	6.52e5	10.6	6.1	1.10	bd
4	200306R2_4	50.0	1.23	NO	33.52	1.000	4.56e5	8.98e5	48.9	-2.2	1.02	dd
5	200306R2_5	200	1.22	NO	33.52	1.001	1.87e6	9.40e5	192	-4.1	0.996	bd
6	200306R2_6	1500	1.22	NO	33.53	1.001	1.65e7	1.09e6	1460	-2.9	1.01	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.0126

RRF SD: 0.0619783, Relative SD: 6.12071

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.20	NO	33.66	1.000	9.19e3	7.80e5	1.16	-6.9	0.943	db
2	200306R2_2	2.50	1.27	NO	33.63	1.000	2.08e4	7.71e5	2.66	6.4	1.08	db
3	200306R2_3	10.0	1.18	NO	33.64	1.000	7.95e4	7.22e5	10.9	8.7	1.10	db
4	200306R2_4	50.0	1.22	NO	33.64	1.000	4.93e5	1.01e6	48.1	-3.7	0.975	db
5	200306R2_5	200	1.22	NO	33.64	1.001	2.10e6	1.05e6	196	-1.8	0.994	db
6	200306R2_6	1500	1.22	NO	33.65	1.000	1.83e7	1.24e6	1460	-2.7	0.986	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.092

RRF SD: 0.0522909, Relative SD: 4.78856

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.20	NO	34.23	1.001	9.49e3	7.13e5	1.22	-2.5	1.07	bb
2	200306R2_2	2.50	1.18	NO	34.19	1.000	2.08e4	7.13e5	2.68	7.1	1.17	bb
3	200306R2_3	10.0	1.21	NO	34.21	1.001	7.81e4	6.81e5	10.5	5.1	1.15	bb
4	200306R2_4	50.0	1.21	NO	34.21	1.001	4.95e5	9.38e5	48.3	-3.4	1.05	bb
5	200306R2_5	200	1.22	NO	34.20	1.000	2.06e6	9.84e5	192	-3.9	1.05	bb
6	200306R2_6	1500	1.22	NO	34.21	1.000	1.82e7	1.14e6	1460	-2.4	1.07	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 1.02678

RRF SD: 0.0447492, Relative SD: 4.35823

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.27	NO	35.11	1.001	7.40e3	5.96e5	1.21	-3.3	0.993	bb
2	200306R2_2	2.50	1.24	NO	35.07	1.000	1.61e4	6.11e5	2.57	2.9	1.06	bb
3	200306R2_3	10.0	1.24	NO	35.08	1.000	6.28e4	5.68e5	10.8	7.6	1.10	bd
4	200306R2_4	50.0	1.25	NO	35.08	1.000	3.95e5	7.83e5	49.1	-1.8	1.01	MM
5	200306R2_5	200	1.23	NO	35.08	1.001	1.63e6	8.17e5	195	-2.7	0.999	bb
6	200306R2_6	1500	1.23	NO	35.10	1.000	1.48e7	9.86e5	1460	-2.7	0.999	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.04827

RRF SD: 0.0494086, Relative SD: 4.71334

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.07	NO	36.81	1.000	6.78e3	5.13e5	1.26	0.8	1.06	bb
2	200306R2_2	2.50	0.98	NO	36.78	1.000	1.55e4	5.54e5	2.67	6.7	1.12	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.18423

RRF SD: 0.101442, Relative SD: 8.56612

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.79	NO	25.80	1.028	1.02e6	7.81e5	110	10.3	1.31	MM
2	200306R2_2	100	0.78	NO	25.76	1.028	1.04e6	9.79e5	89.6	-10.4	1.06	bb
3	200306R2_3	100	0.79	NO	25.78	1.028	9.83e5	9.27e5	89.5	-10.5	1.06	bb
4	200306R2_4	100	0.78	NO	25.78	1.028	1.15e6	9.40e5	103	3.3	1.22	bb
5	200306R2_5	100	0.78	NO	25.76	1.028	1.30e6	1.07e6	102	2.0	1.21	bb
6	200306R2_6	100	0.79	NO	25.76	1.028	1.34e6	1.07e6	105	5.2	1.25	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.864397

RRF SD: 0.123368, Relative SD: 14.2722

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.64	NO	30.99	1.235	7.13e5	7.81e5	106	5.7	0.914	bb
2	200306R2_2	100	0.63	NO	30.96	1.235	6.98e5	9.79e5	82.5	-17.5	0.713	bb
3	200306R2_3	100	0.64	NO	30.97	1.235	6.63e5	9.27e5	82.7	-17.3	0.715	bb
4	200306R2_4	100	0.62	NO	30.97	1.235	9.00e5	9.40e5	111	10.8	0.958	bb
5	200306R2_5	100	0.64	NO	30.97	1.236	9.49e5	1.07e6	102	2.3	0.884	bb
6	200306R2_6	100	0.63	NO	30.97	1.236	1.08e6	1.07e6	116	16.1	1.00	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.753912

RRF SD: 0.0956829, Relative SD: 12.6915

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.25	NO	34.38	1.014	5.37e5	6.43e5	111	10.7	0.835	bd
2	200306R2_2	100	1.28	NO	34.35	1.014	5.23e5	7.96e5	87.2	-12.8	0.657	bd

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	100	1.28	NO	34.36	1.014	4.95e5	7.60e5	86.4	-13.6	0.652	bd
4	200306R2_4	100	1.27	NO	34.36	1.014	6.79e5	9.06e5	99.5	-0.5	0.750	bd
5	200306R2_5	100	1.26	NO	34.36	1.014	6.81e5	9.24e5	97.8	-2.2	0.738	bd
6	200306R2_6	100	1.28	NO	34.37	1.014	8.39e5	9.40e5	118	18.4	0.892	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.925405

RRF SD: 0.118798, Relative SD: 12.8375

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.25	NO	34.49	1.017	6.23e5	6.43e5	105	4.6	0.968	db
2	200306R2_2	100	1.26	NO	34.46	1.017	6.45e5	7.96e5	87.5	-12.5	0.810	db
3	200306R2_3	100	1.25	NO	34.47	1.017	6.06e5	7.60e5	86.2	-13.8	0.797	db
4	200306R2_4	100	1.28	NO	34.47	1.017	8.29e5	9.06e5	98.9	-1.1	0.916	db
5	200306R2_5	100	1.28	NO	34.46	1.017	8.67e5	9.24e5	101	1.4	0.939	db
6	200306R2_6	100	1.27	NO	34.47	1.017	1.05e6	9.40e5	121	21.3	1.12	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.829419

RRF SD: 0.100271, Relative SD: 12.0893

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.30	NO	34.75	1.025	5.57e5	6.43e5	104	4.5	0.867	bd
2	200306R2_2	100	1.23	NO	34.72	1.025	5.80e5	7.96e5	87.8	-12.2	0.728	bb
3	200306R2_3	100	1.24	NO	34.73	1.025	5.46e5	7.60e5	86.6	-13.4	0.718	bb
4	200306R2_4	100	1.23	NO	34.73	1.025	7.47e5	9.06e5	99.4	-0.6	0.825	bb
5	200306R2_5	100	1.19	NO	34.73	1.025	7.83e5	9.24e5	102	2.3	0.848	bb
6	200306R2_6	100	1.25	NO	34.74	1.025	9.31e5	9.40e5	119	19.4	0.990	bb

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Compound name: 13C-1,2,3,4,6,7,8-HpCDD

Response Factor: 0.598232

RRF SD: 0.0717306, Relative SD: 11.9904

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.03	NO	38.21	1.127	3.74e5	6.43e5	97.3	-2.7	0.582	bb
2	200306R2_2	100	1.06	NO	38.17	1.127	4.34e5	7.96e5	91.1	-8.9	0.545	bd
3	200306R2_3	100	1.06	NO	38.17	1.126	3.84e5	7.60e5	84.5	-15.5	0.506	bb
4	200306R2_4	100	1.05	NO	38.19	1.127	5.52e5	9.06e5	102	1.9	0.610	bb
5	200306R2_5	100	1.11	NO	38.18	1.127	5.89e5	9.24e5	107	6.6	0.638	bd
6	200306R2_6	100	1.06	NO	38.19	1.127	6.67e5	9.40e5	119	18.6	0.709	bb

Compound name: 13C-OCDD

Response Factor: 0.571169

RRF SD: 0.108174, Relative SD: 18.9391

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	200	0.90	NO	41.23	1.216	7.05e5	6.43e5	192	-4.0	0.548	bd
2	200306R2_2	200	0.90	NO	41.21	1.216	7.62e5	7.96e5	168	-16.2	0.479	bb
3	200306R2_3	200	0.94	NO	41.22	1.216	7.16e5	7.60e5	165	-17.5	0.471	bd
4	200306R2_4	200	0.85	NO	41.21	1.216	9.75e5	9.06e5	189	-5.7	0.538	bb
5	200306R2_5	200	0.89	NO	41.21	1.216	1.17e6	9.24e5	222	11.0	0.634	bd
6	200306R2_6	200	0.90	NO	41.23	1.217	1.42e6	9.40e5	265	32.5	0.757	bd

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08928

RRF SD: 0.0987678, Relative SD: 9.06725

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.79	NO	24.84	0.990	1.43e6	1.19e6	111	11.0	1.21	bb
2	200306R2_2	100	0.79	NO	24.79	0.989	1.45e6	1.48e6	89.7	-10.3	0.977	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	100	0.77	NO	24.81	0.989	1.38e6	1.43e6	88.3	-11.7	0.962	bb
4	200306R2_4	100	0.78	NO	24.82	0.990	1.46e6	1.27e6	106	5.6	1.15	bb
5	200306R2_5	100	0.78	NO	24.81	0.990	1.74e6	1.56e6	103	2.7	1.12	bb
6	200306R2_6	100	0.78	NO	24.79	0.989	1.81e6	1.62e6	103	2.7	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.876347

RRF SD: 0.137914, Relative SD: 15.7373

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.55	NO	29.66	1.182	1.13e6	1.19e6	109	8.6	0.952	bb
2	200306R2_2	100	1.60	NO	29.63	1.182	1.07e6	1.48e6	82.5	-17.5	0.723	bb
3	200306R2_3	100	1.58	NO	29.63	1.182	9.93e5	1.43e6	79.2	-20.8	0.694	bb
4	200306R2_4	100	1.60	NO	29.63	1.181	1.30e6	1.27e6	117	17.2	1.03	bb
5	200306R2_5	100	1.57	NO	29.63	1.182	1.38e6	1.56e6	101	1.2	0.887	bb
6	200306R2_6	100	1.57	NO	29.65	1.183	1.58e6	1.62e6	111	11.3	0.976	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.843553

RRF SD: 0.133299, Relative SD: 15.8021

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.57	NO	30.68	1.223	1.05e6	1.19e6	105	4.8	0.884	db
2	200306R2_2	100	1.58	NO	30.64	1.222	1.02e6	1.48e6	81.4	-18.6	0.687	db
3	200306R2_3	100	1.58	NO	30.65	1.222	9.68e5	1.43e6	80.2	-19.8	0.677	db
4	200306R2_4	100	1.60	NO	30.65	1.222	1.27e6	1.27e6	118	18.2	0.997	db
5	200306R2_5	100	1.58	NO	30.65	1.223	1.36e6	1.56e6	103	3.2	0.870	db
6	200306R2_6	100	1.60	NO	30.67	1.224	1.53e6	1.62e6	112	12.2	0.947	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00027

RRF SD: 0.122541, Relative SD: 12.2508

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.52	NO	33.52	0.988	7.10e5	6.43e5	110	10.3	1.10	bd
2	200306R2_2	100	0.51	NO	33.50	0.989	6.91e5	7.96e5	86.8	-13.2	0.869	bd
3	200306R2_3	100	0.52	NO	33.51	0.989	6.52e5	7.60e5	85.8	-14.2	0.858	bd
4	200306R2_4	100	0.51	NO	33.51	0.989	8.98e5	9.06e5	99.1	-0.9	0.992	bd
5	200306R2_5	100	0.52	NO	33.50	0.989	9.40e5	9.24e5	102	1.7	1.02	bd
6	200306R2_6	100	0.52	NO	33.51	0.989	1.09e6	9.40e5	116	16.3	1.16	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.1178

RRF SD: 0.141321, Relative SD: 12.6428

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.65	0.992	7.80e5	6.43e5	108	8.5	1.21	db
2	200306R2_2	100	0.51	NO	33.62	0.992	7.71e5	7.96e5	86.6	-13.4	0.969	db
3	200306R2_3	100	0.53	NO	33.63	0.992	7.22e5	7.60e5	85.0	-15.0	0.951	db
4	200306R2_4	100	0.52	NO	33.63	0.992	1.01e6	9.06e5	99.9	-0.1	1.12	db
5	200306R2_5	100	0.53	NO	33.61	0.992	1.05e6	9.24e5	102	2.1	1.14	db
6	200306R2_6	100	0.52	NO	33.64	0.993	1.24e6	9.40e5	118	17.9	1.32	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.03533

RRF SD: 0.12301, Relative SD: 11.8812

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.52	NO	34.21	1.009	7.13e5	6.43e5	107	7.1	1.11	bb
2	200306R2_2	100	0.51	NO	34.18	1.009	7.13e5	7.96e5	86.5	-13.5	0.896	bb

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Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	100	0.52	NO	34.19	1.009	6.81e5	7.60e5	86.6	-13.4	0.896	bb
4	200306R2_4	100	0.53	NO	34.19	1.009	9.38e5	9.06e5	100	0.1	1.04	MM
5	200306R2_5	100	0.52	NO	34.19	1.009	9.84e5	9.24e5	103	2.9	1.07	bb
6	200306R2_6	100	0.52	NO	34.20	1.009	1.14e6	9.40e5	117	16.9	1.21	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.873112

RRF SD: 0.110234, Relative SD: 12.6254

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	35.08	1.035	5.96e5	6.43e5	106	6.1	0.926	bb
2	200306R2_2	100	0.51	NO	35.06	1.035	6.11e5	7.96e5	87.9	-12.1	0.768	bb
3	200306R2_3	100	0.52	NO	35.07	1.035	5.68e5	7.60e5	85.6	-14.4	0.747	bb
4	200306R2_4	100	0.52	NO	35.07	1.035	7.83e5	9.06e5	99.0	-1.0	0.864	bb
5	200306R2_5	100	0.51	NO	35.06	1.035	8.17e5	9.24e5	101	1.3	0.884	bb
6	200306R2_6	100	0.53	NO	35.08	1.035	9.86e5	9.40e5	120	20.1	1.05	bb

Compound name: 13C-1,2,3,4,6,7,8-HpCDF

Response Factor: 0.770799

RRF SD: 0.0912069, Relative SD: 11.8328

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.44	NO	36.80	1.085	5.13e5	6.43e5	104	3.5	0.798	bb
2	200306R2_2	100	0.46	NO	36.77	1.085	5.54e5	7.96e5	90.3	-9.7	0.696	bb
3	200306R2_3	100	0.45	NO	36.78	1.085	4.96e5	7.60e5	84.6	-15.4	0.652	bb
4	200306R2_4	100	0.46	NO	36.78	1.085	7.08e5	9.06e5	101	1.4	0.782	bd
5	200306R2_5	100	0.45	NO	36.78	1.086	7.21e5	9.24e5	101	1.3	0.781	bb
6	200306R2_6	100	0.45	NO	36.79	1.086	8.61e5	9.40e5	119	18.8	0.916	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

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Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

Method: U:\VG12.PROMethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

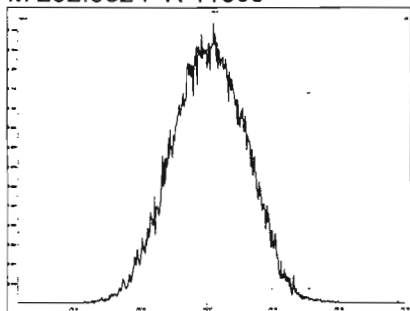
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200306R2_1	ST200306R2_1 1613 CS0 19L2302	06-Mar-20	13:08:38
2	200306R2_2	ST200306R2_2 1613 CS1 19L2303	06-Mar-20	13:58:25
3	200306R2_3	ST200306R2_3 1613 CS2 19L2304	06-Mar-20	14:44:37
4	200306R2_4	ST200306R2_4 1613 CS3 19L2305	06-Mar-20	15:32:12
5	200306R2_5	ST200306R2_5 1613 CS4 19L2306	06-Mar-20	16:19:37
6	200306R2_6	ST200306R2_6 1613 CS5 19L2307	06-Mar-20	17:07:03
7	200306R2_7	SOLVENT BLANK	06-Mar-20	17:56:11
8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
9	200306R2_9	SOLVENT BLANK	06-Mar-20	19:38:48
10	200306R2_10	2000406-09 PDI-049SC-A-04-05-191015 16.98	06-Mar-20	20:25:03
11	200306R2_11	2000406-10 PDI-049SC-A-05-06-191015 16.09	06-Mar-20	21:12:36
12	200306R2_12	2000406-11 PDI-049SC-A-06-07-191015 13.96	06-Mar-20	22:00:09
13	200306R2_13	2000406-12 PDI-049SC-A-07-08-191015 12.78	06-Mar-20	22:47:33
14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
15	200306R2_15	2000406-14 PDI-084SC-A-03-04-191002 18.94	07-Mar-20	00:22:31
16	200306R2_16	2000406-15 PDI-084SC-A-04-05-191002 17.76	07-Mar-20	01:09:56

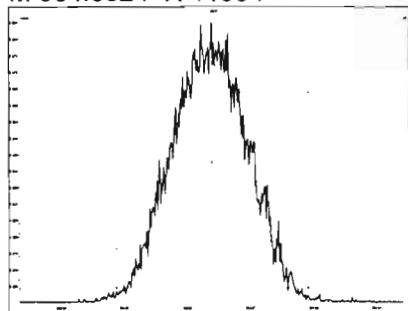
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:05:44 Pacific Standard Time

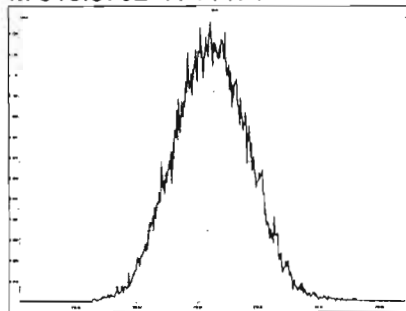
M 292.9824 R 11365



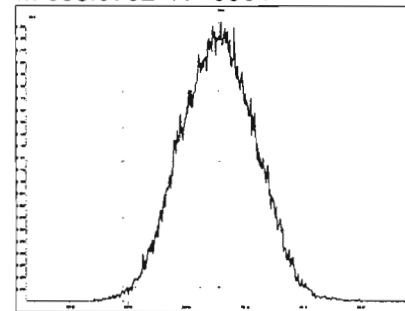
M 304.9824 R 11904



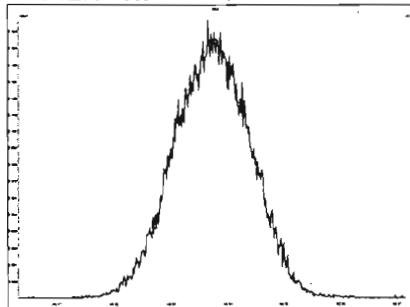
M 318.9792 R 11471



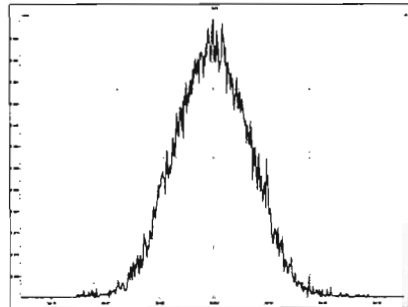
M 330.9792 R 10961



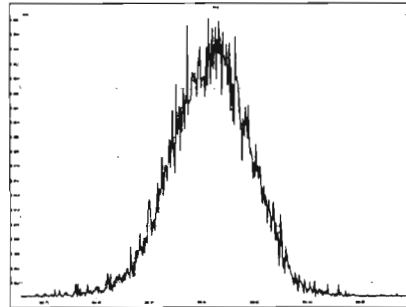
M 342.9792 R 11061



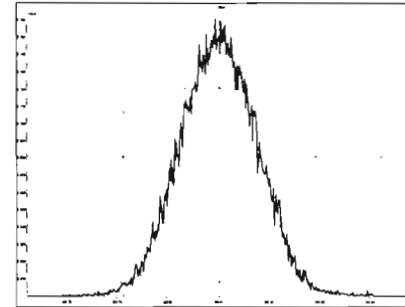
M 354.9792 R 11365



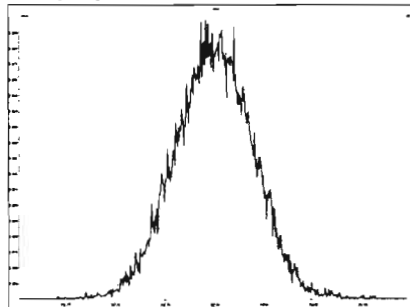
M 366.9792 R 10460



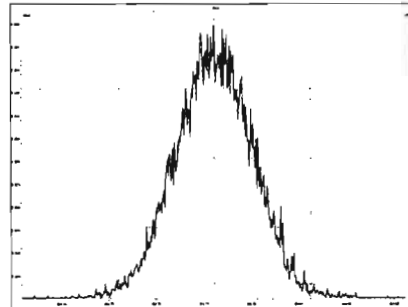
M 380.9760 R 11016



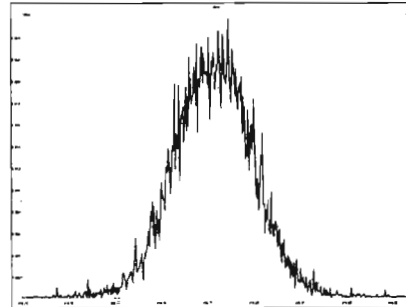
M 392.9760 R 10594



M 404.9760 R 11260



M 416.9760 R 11465



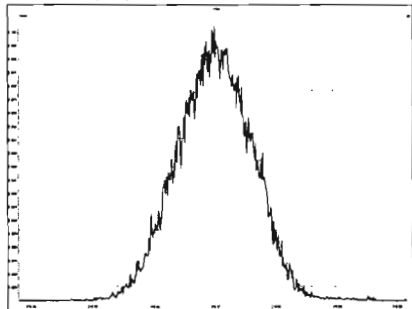
Experiment Calibration Report

MassLynx 4.1 SCN815

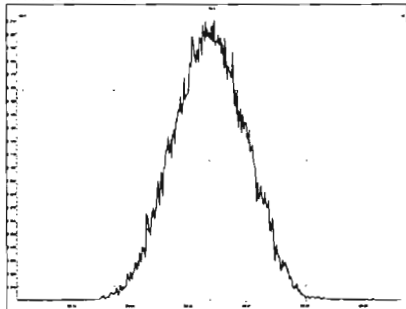
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:06:28 Pacific Standard Time

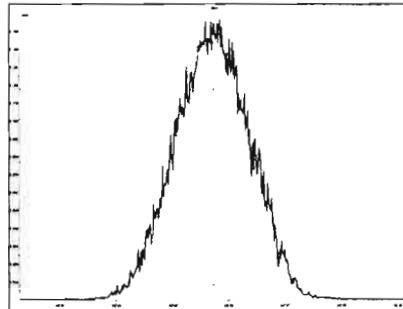
M 318.9792 R 11796



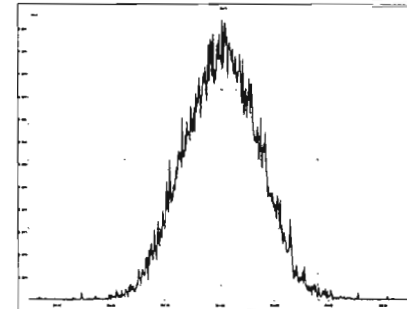
M 330.9792 R 11522



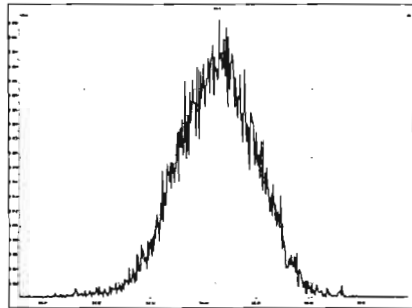
M 342.9792 R 11363



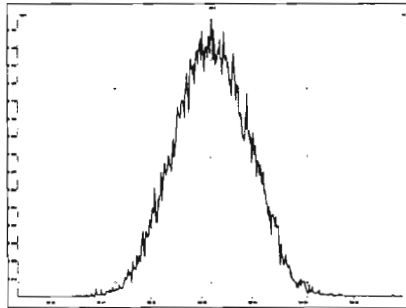
M 354.9792 R 11413



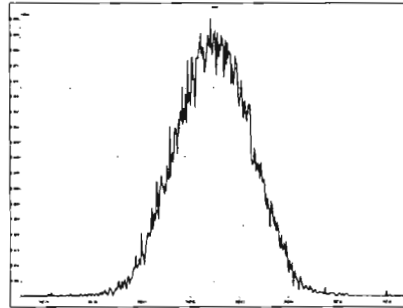
M 366.9792 R 10730



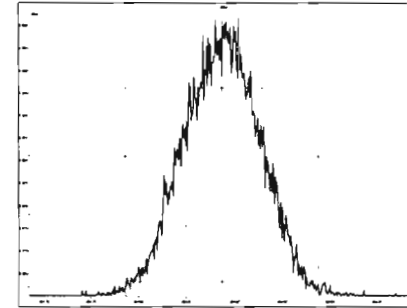
M 380.9760 R 11159



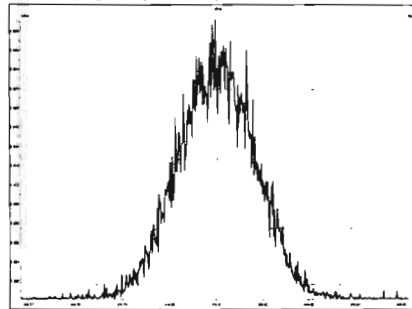
M 392.9760 R 11575



M 404.9760 R 11061



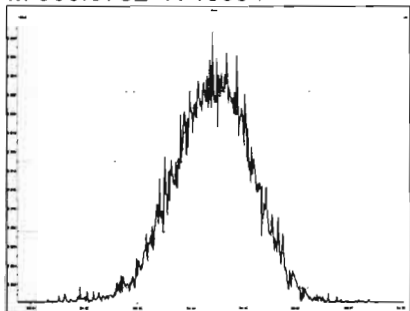
M 416.9760 R 10728



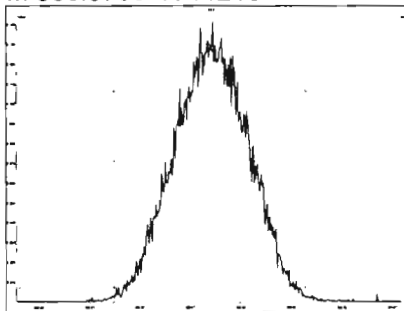
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

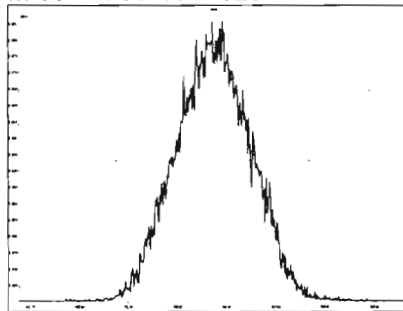
M 366.9792 R 10504



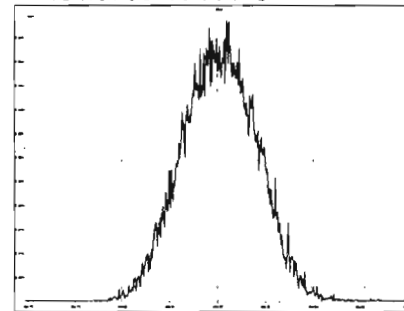
M 380.9760 R 11210



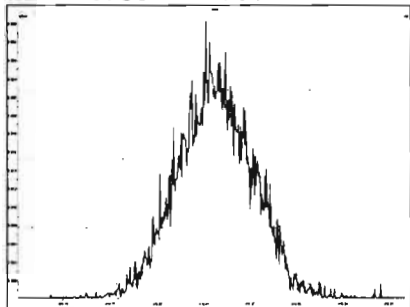
M 392.9760 R 11629



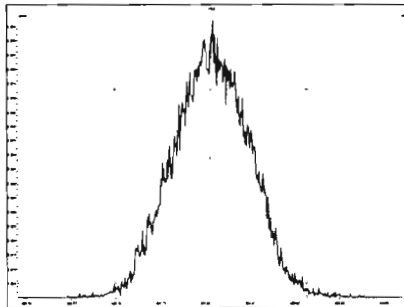
M 404.9760 R 11415



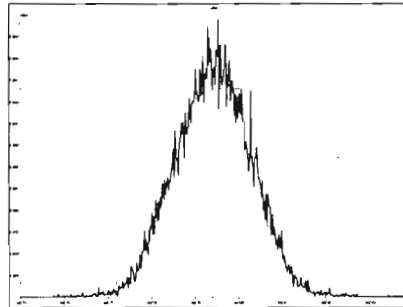
M 416.9760 R 11795



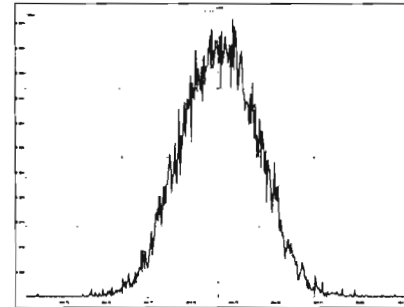
M 430.9728 R 11108



M 442.9728 R 11415



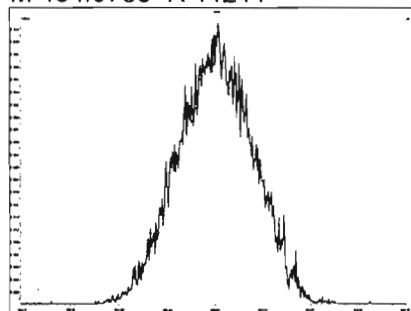
M 454.9728 R 11063



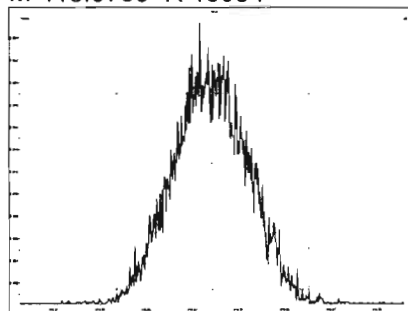
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

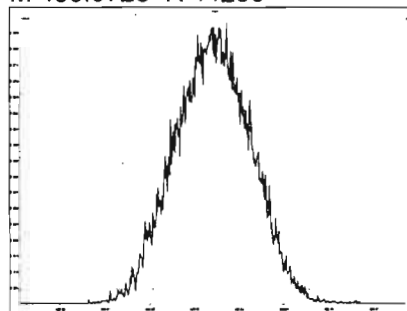
M 404.9760 R 11211



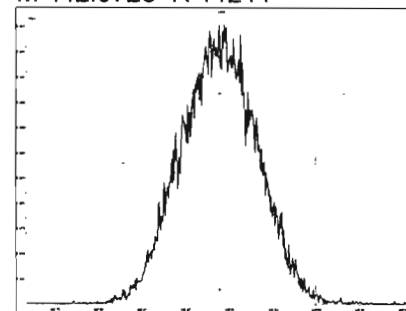
M 416.9760 R 10964



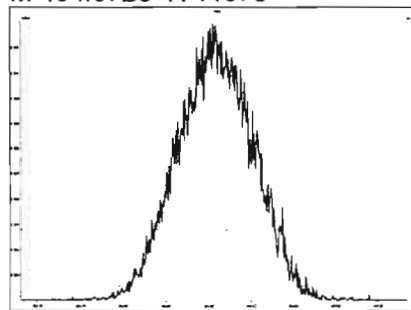
M 430.9728 R 11263



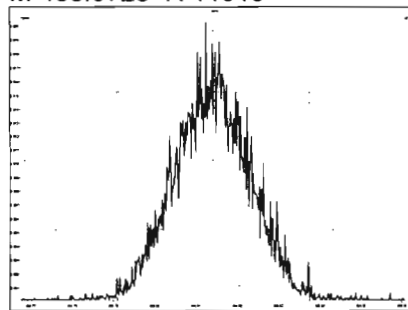
M 442.9728 R 11211



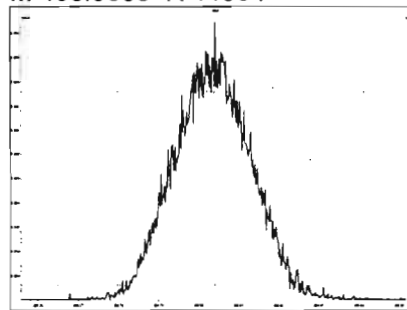
M 454.9728 R 11576



M 466.9728 R 11313



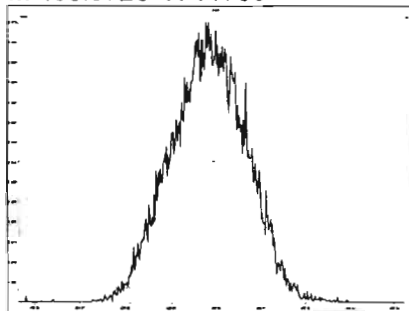
M 480.9696 R 11904



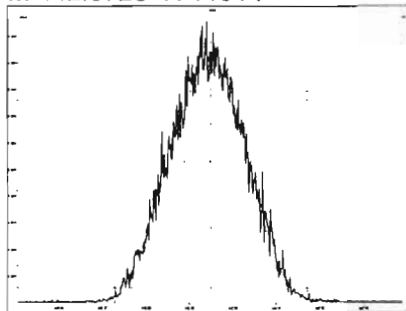
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

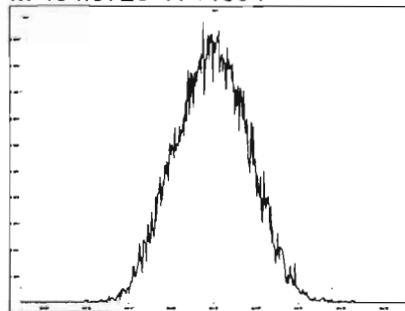
M 430.9728 R 11736



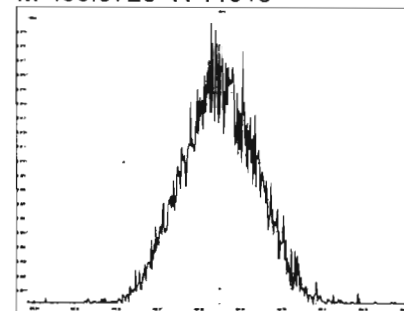
M 442.9728 R 11314



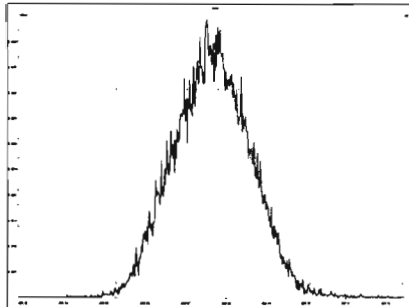
M 454.9728 R 11364



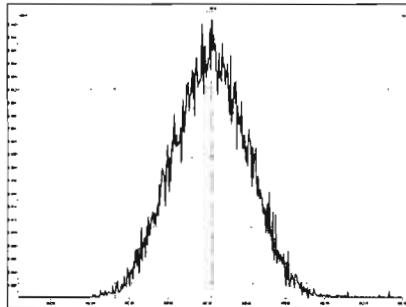
M 466.9728 R 11015



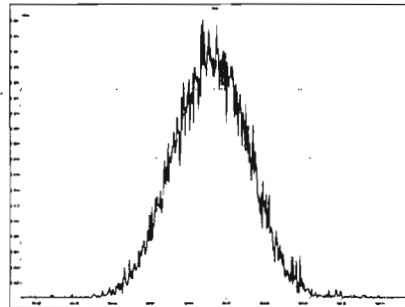
M 480.9696 R 11361



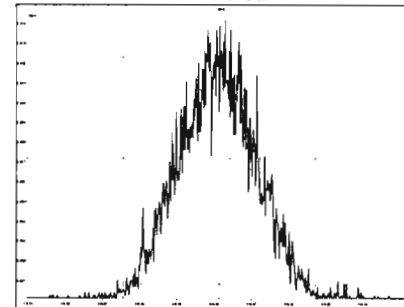
M 492.9696 R 12376



M 504.9696 R 11064



M 516.9697 R 12252



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.53
2	2 1,2,8,9-TCDD (Last)	26.81
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.90
6	6 1,2,3,7,8,9-HxCDD (Last)	34.74
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	19.52
10	10 1,2,8,9-TCDF (Last)	26.96
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.34
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.79
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

GRB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

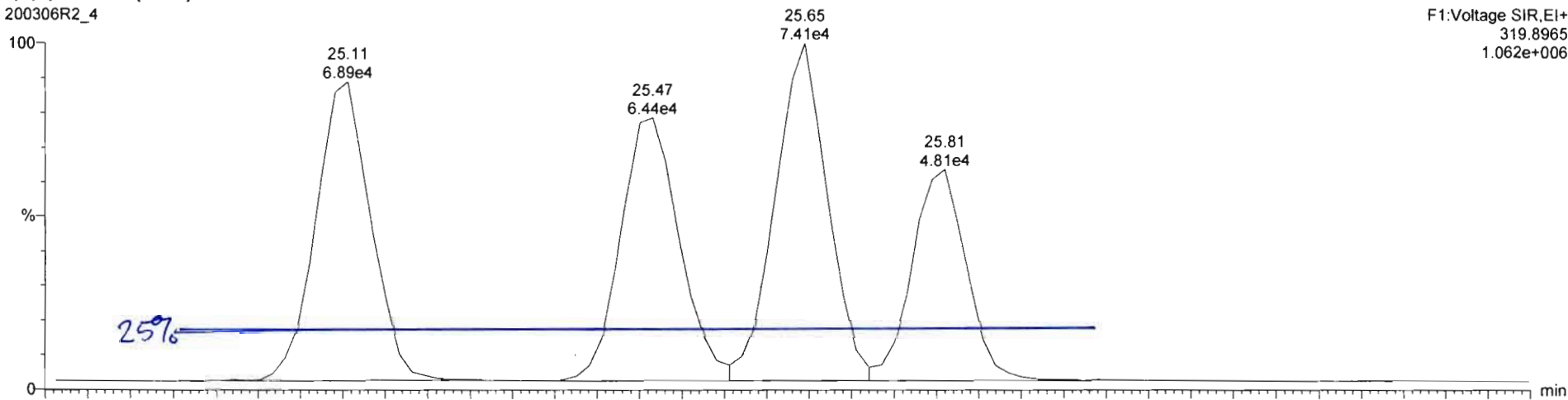
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

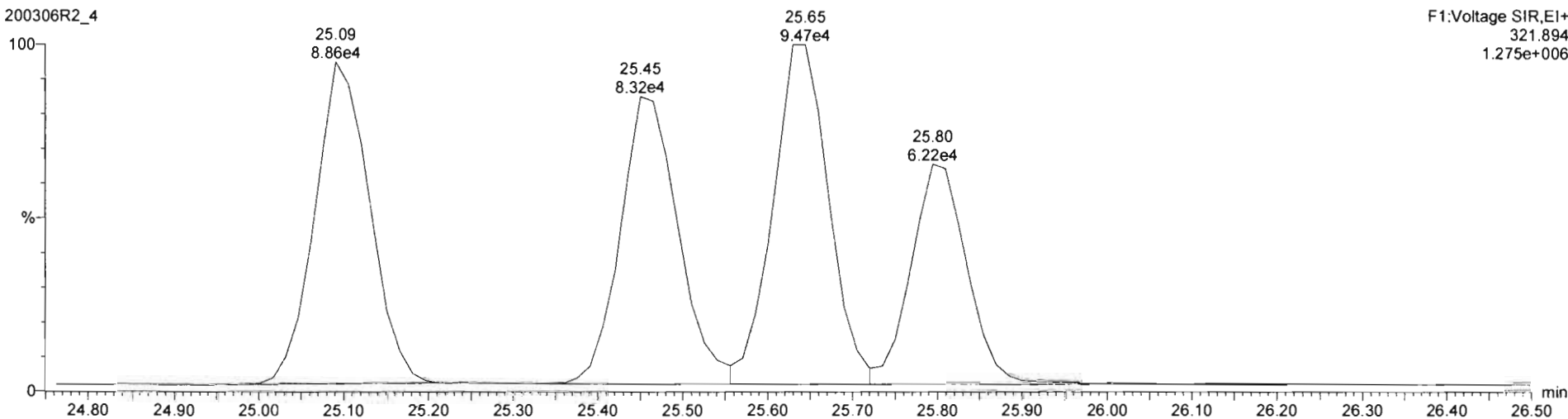
200306R2_4

F1:Voltage SIR,EI+
319.8965
1.062e+006



200306R2_4

F1:Voltage SIR,EI+
321.894
1.275e+006



Dataset: Untitled

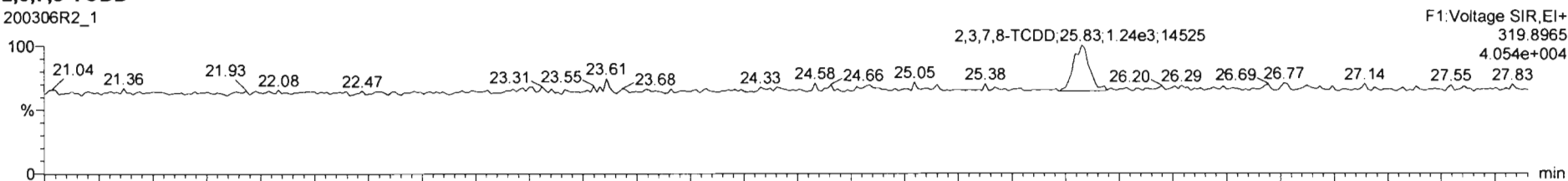
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

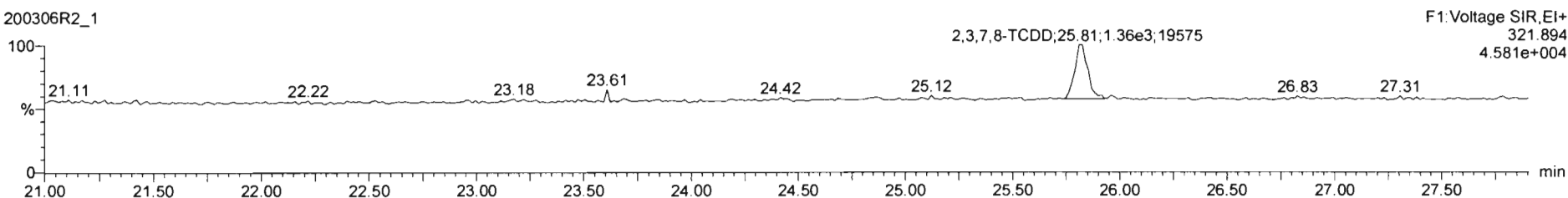
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

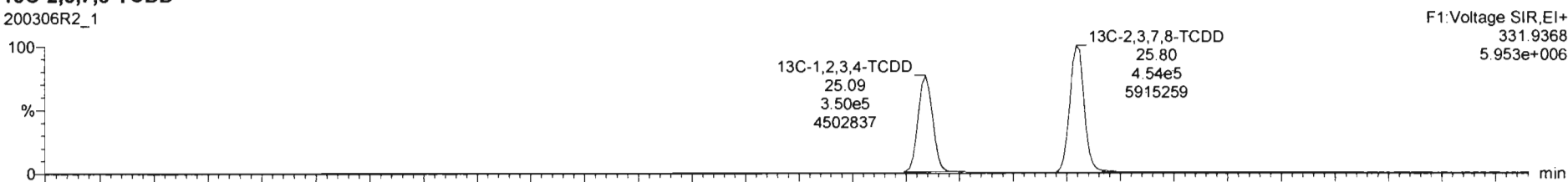


200306R2_1

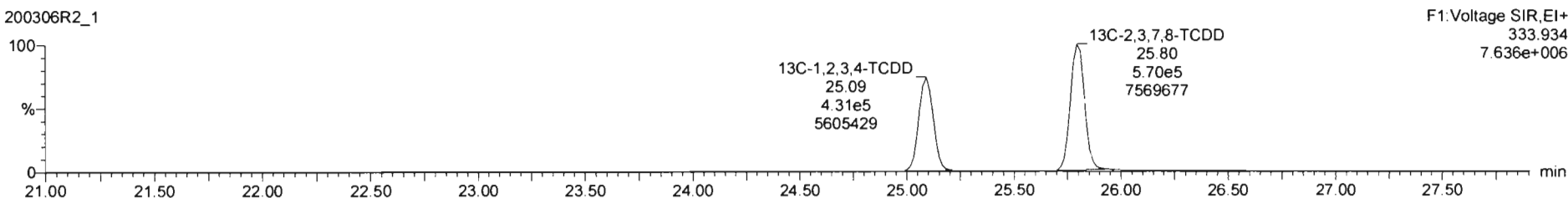


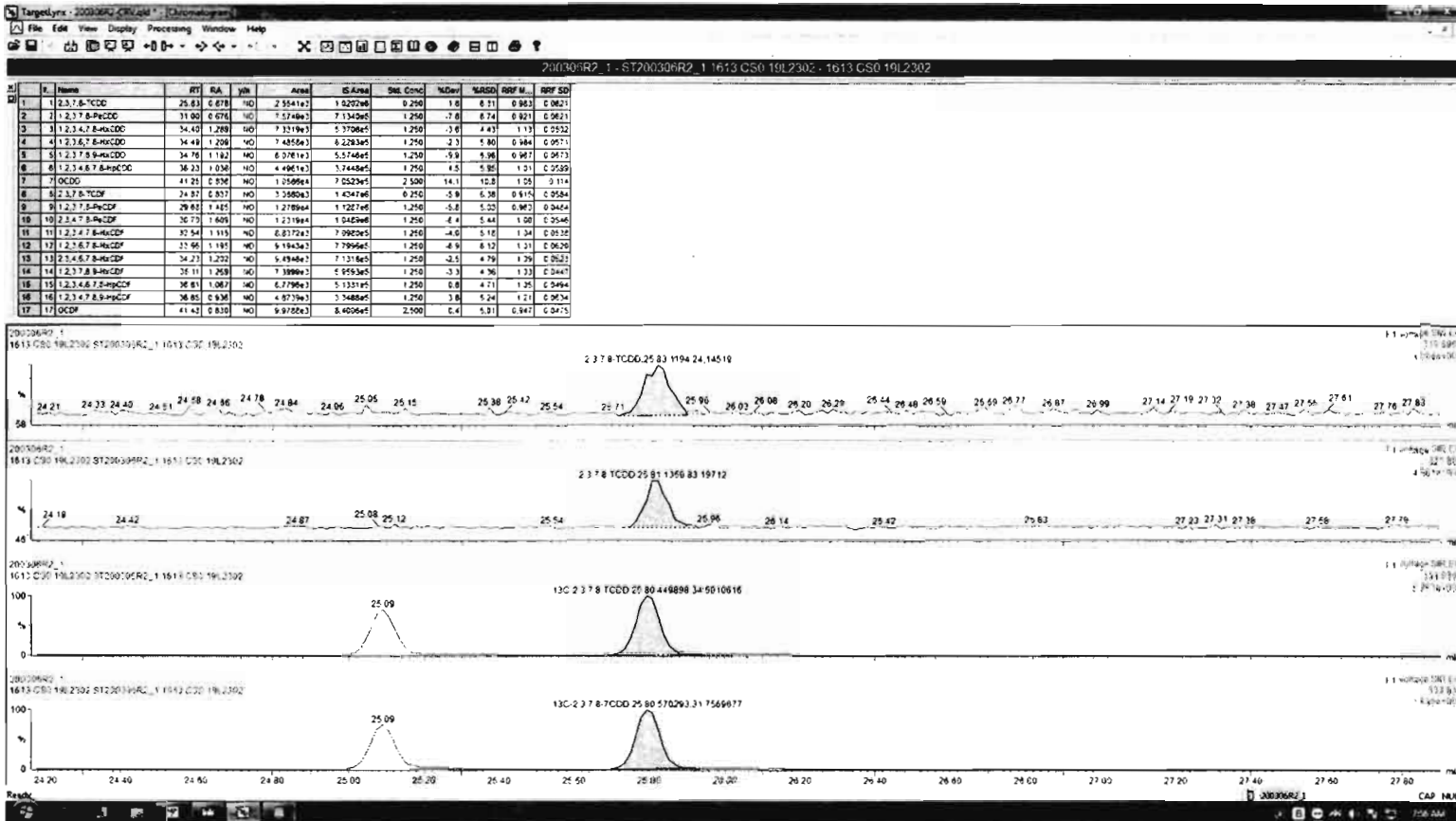
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





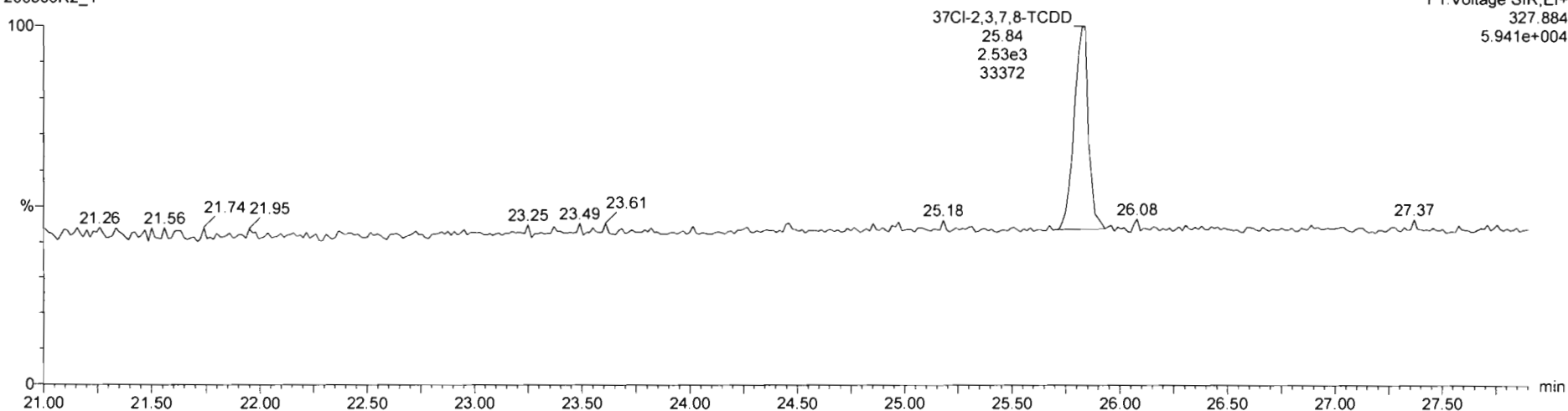
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

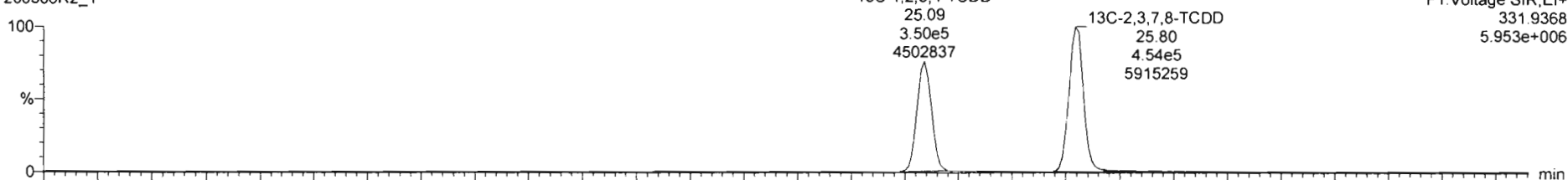
37Cl-2,3,7,8-TCDD

200306R2_1

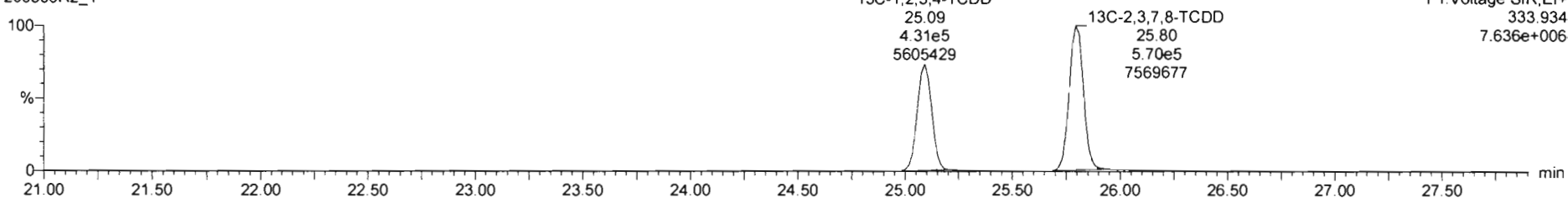


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



Dataset: Untitled

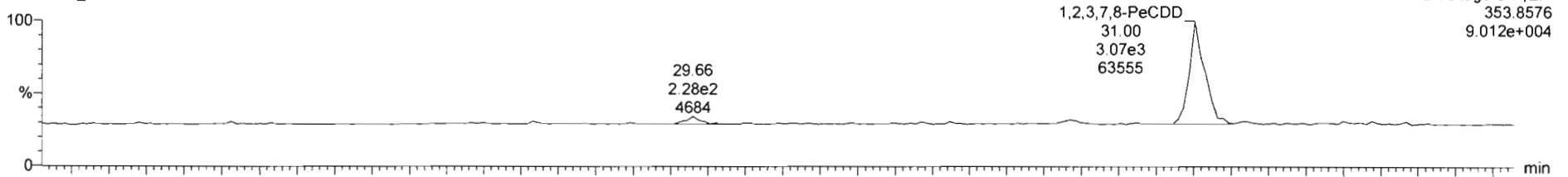
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

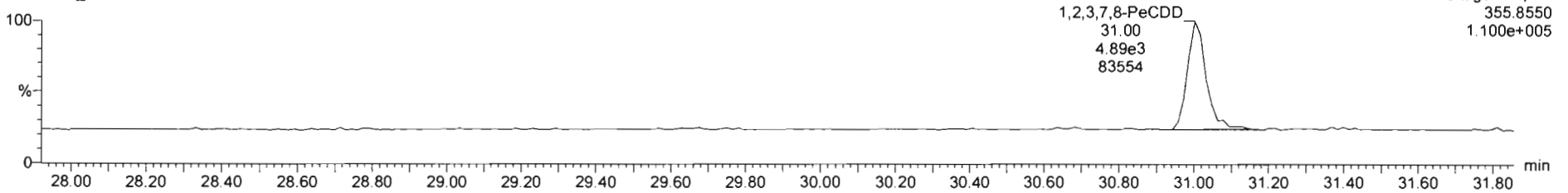
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1

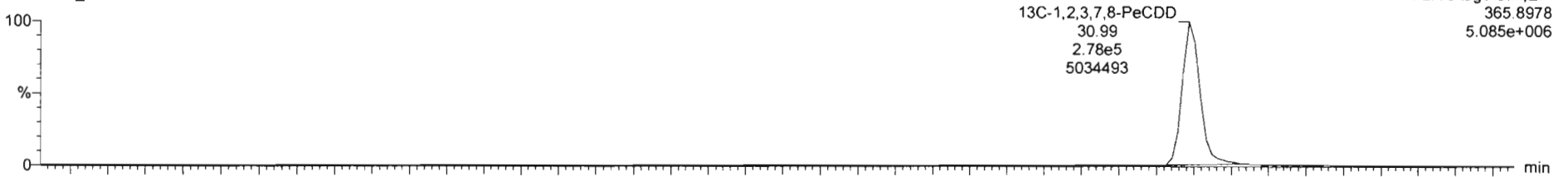


200306R2_1

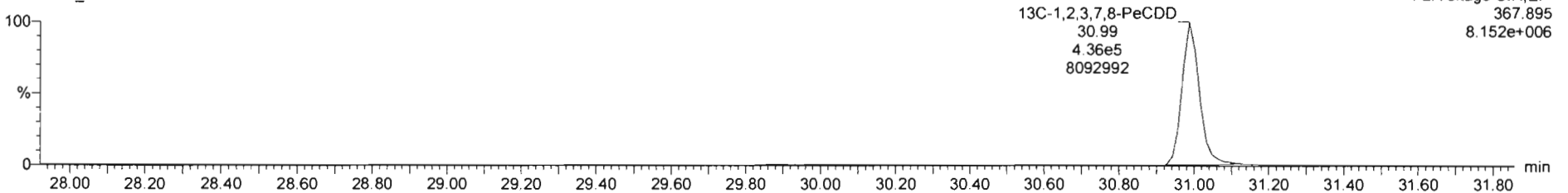


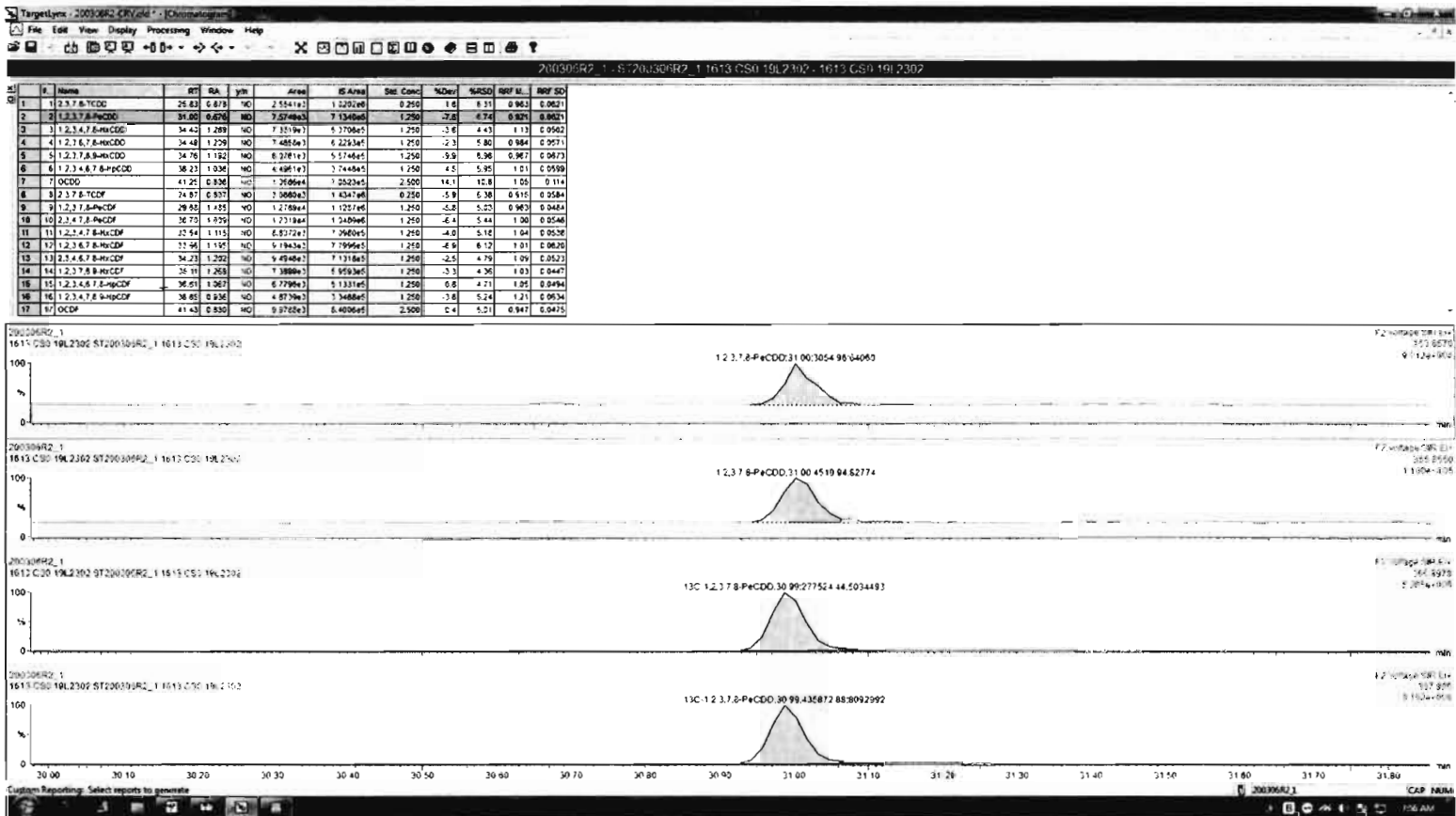
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





Dataset: Untitled

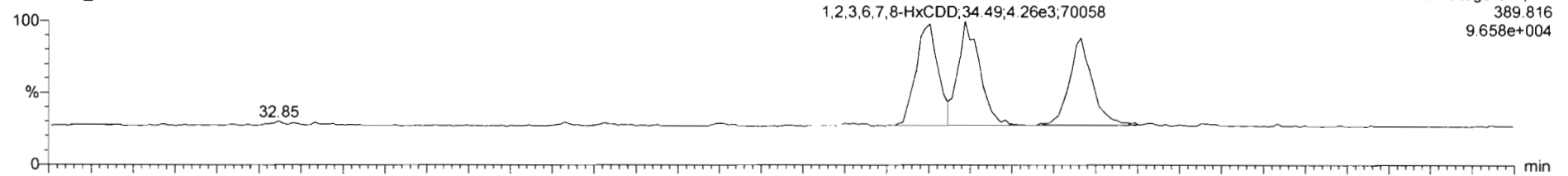
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

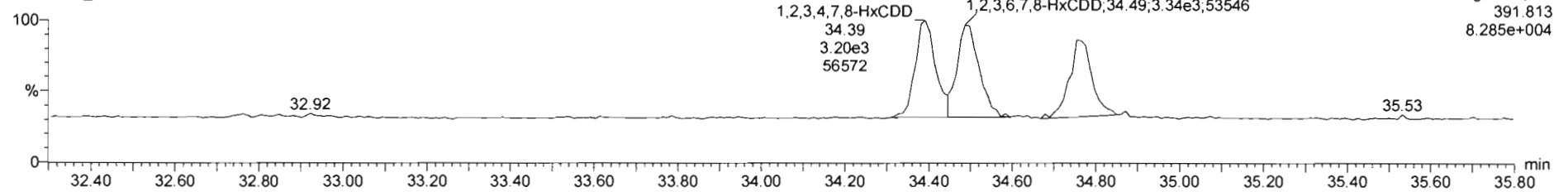
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1,2,3,4,7,8-HxCDD

200306R2_1

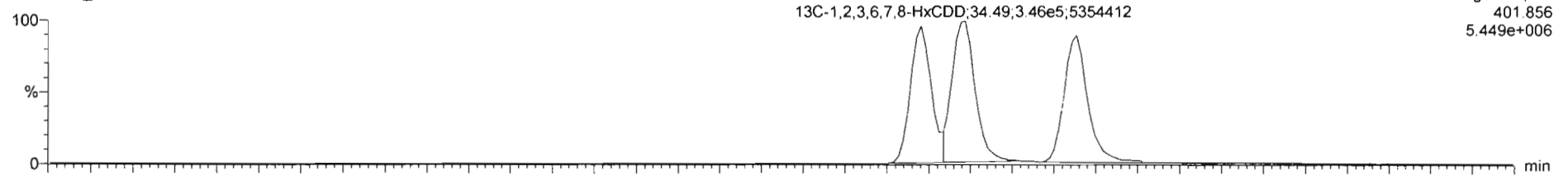


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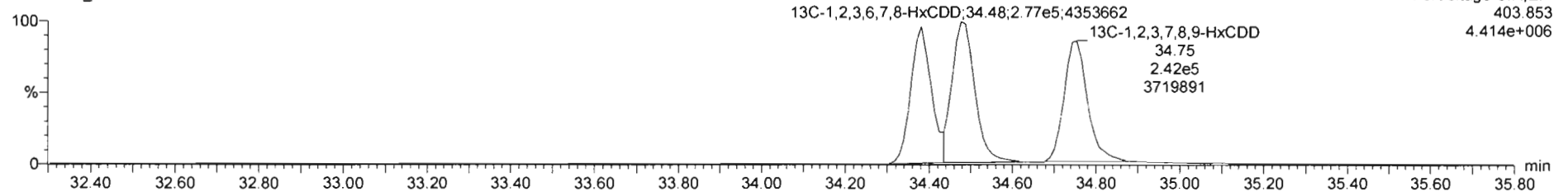


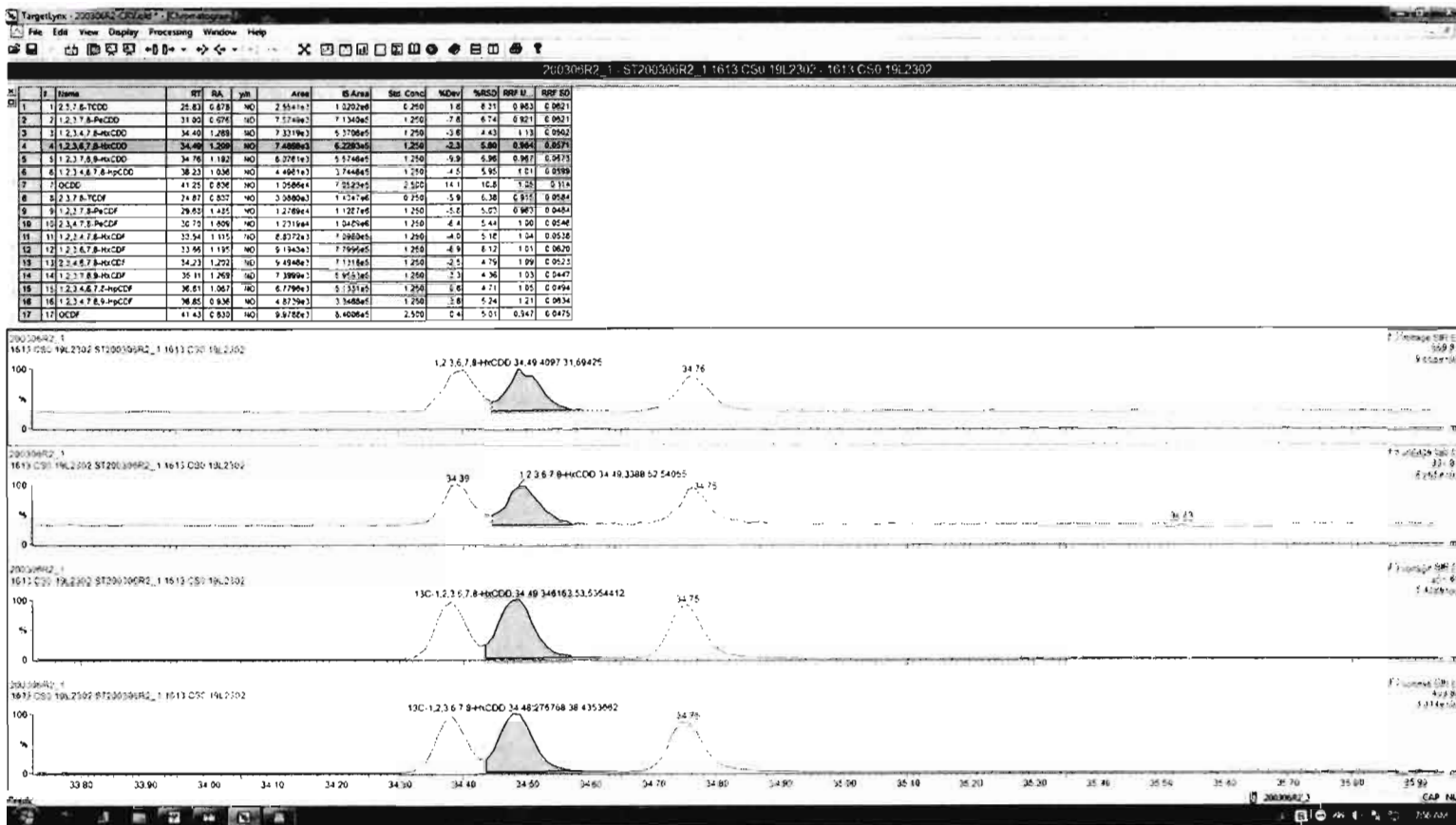
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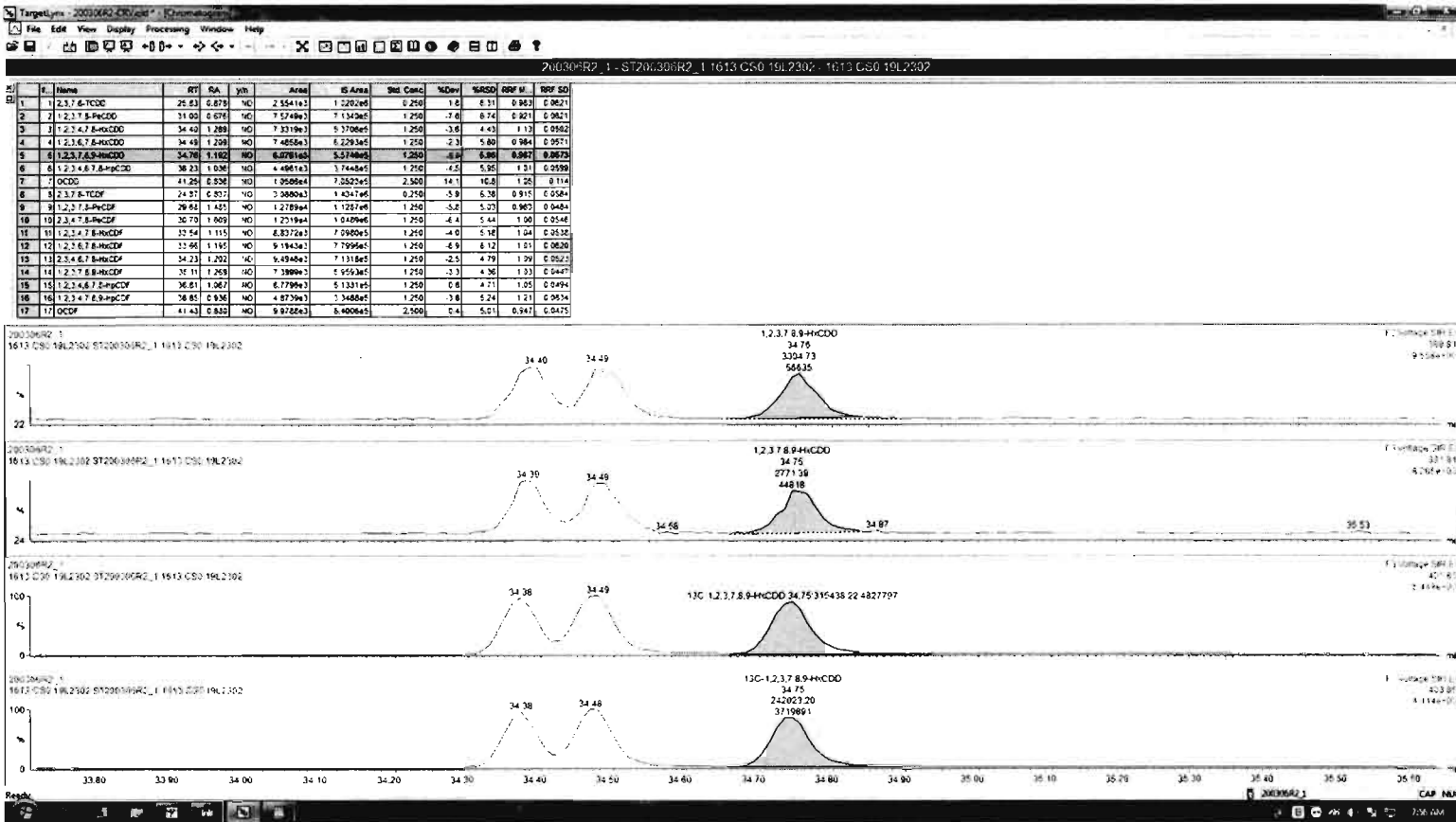
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200306R2_1







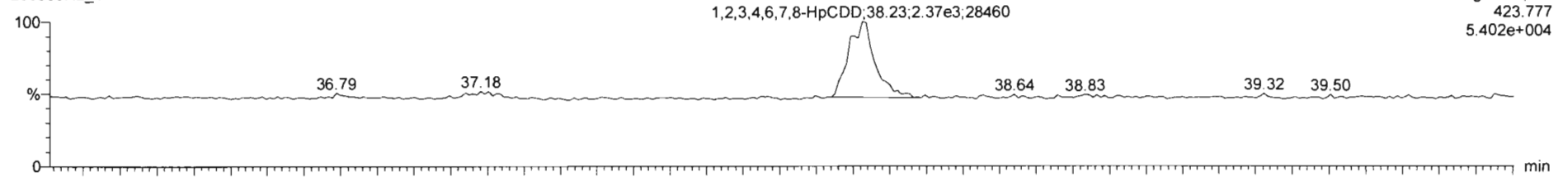
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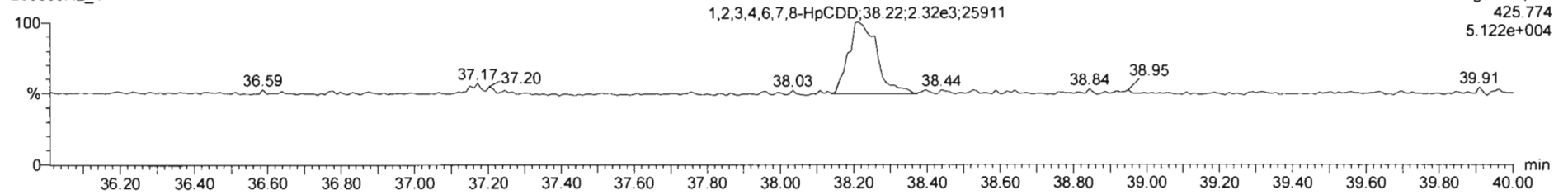
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1,2,3,4,6,7,8-HpCDD

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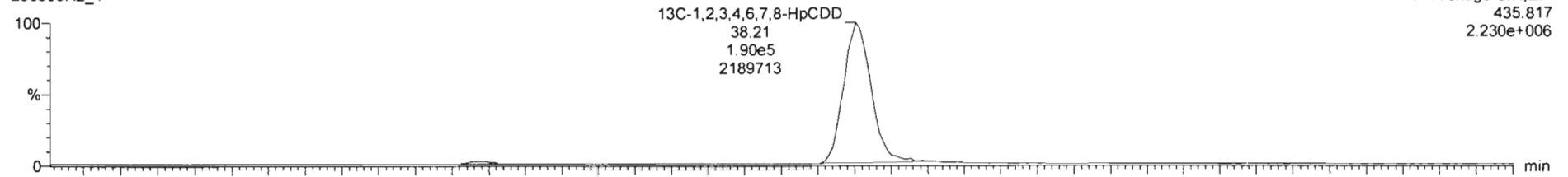


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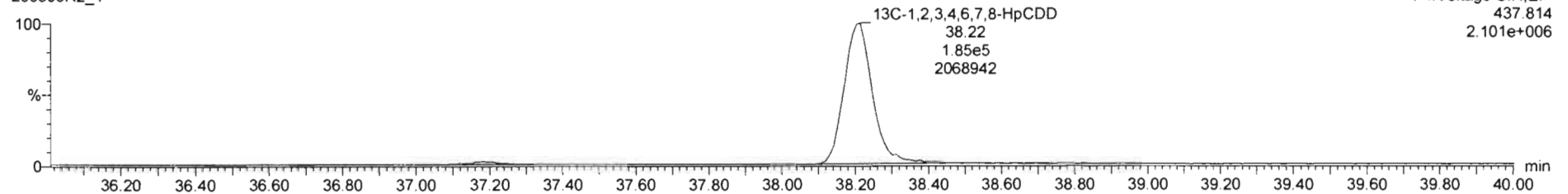


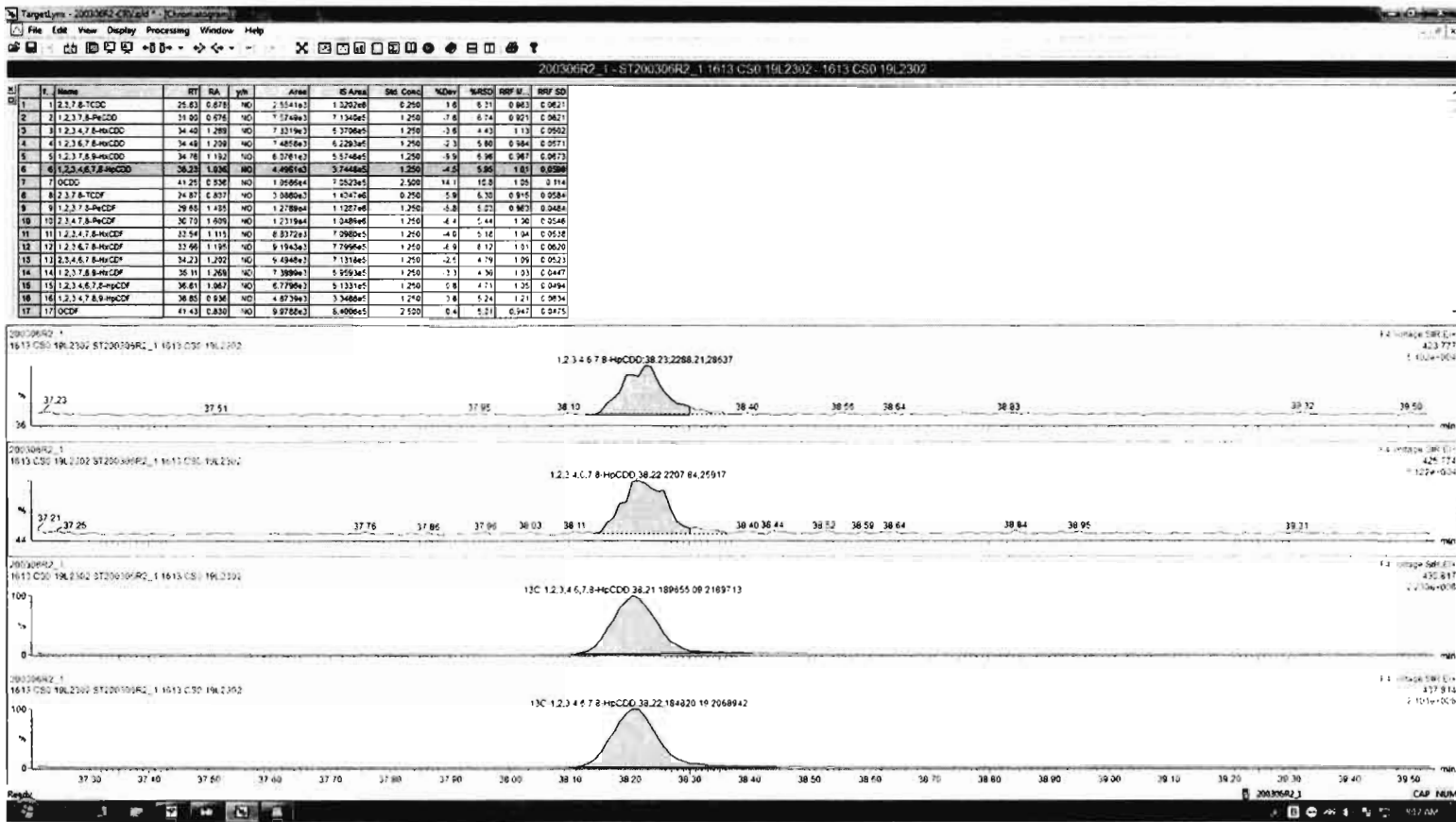
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200306R2_1



200306R2_1

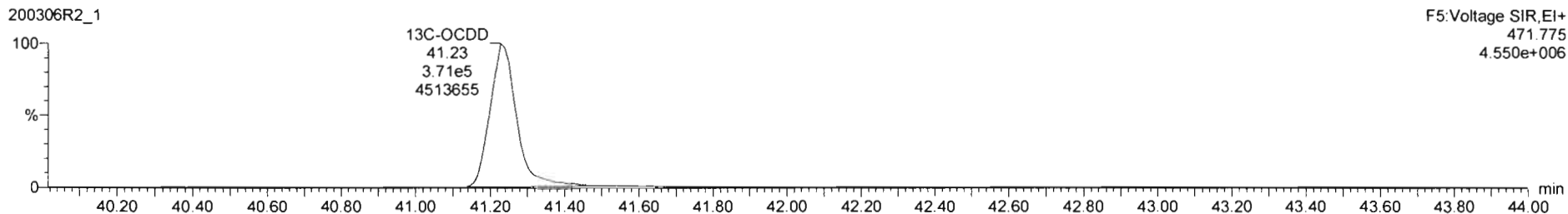
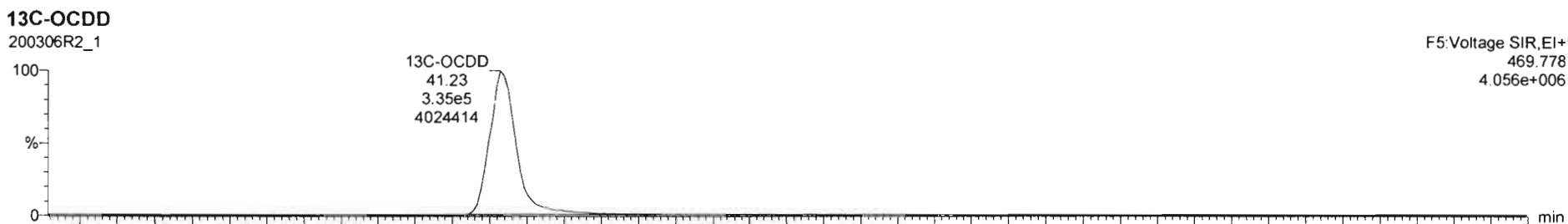
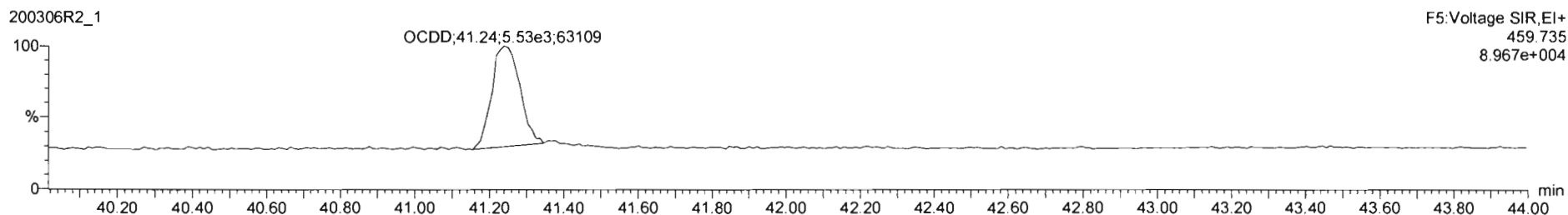
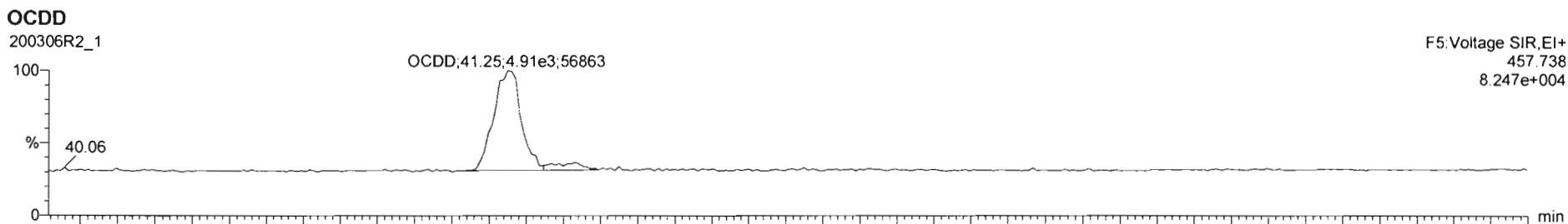


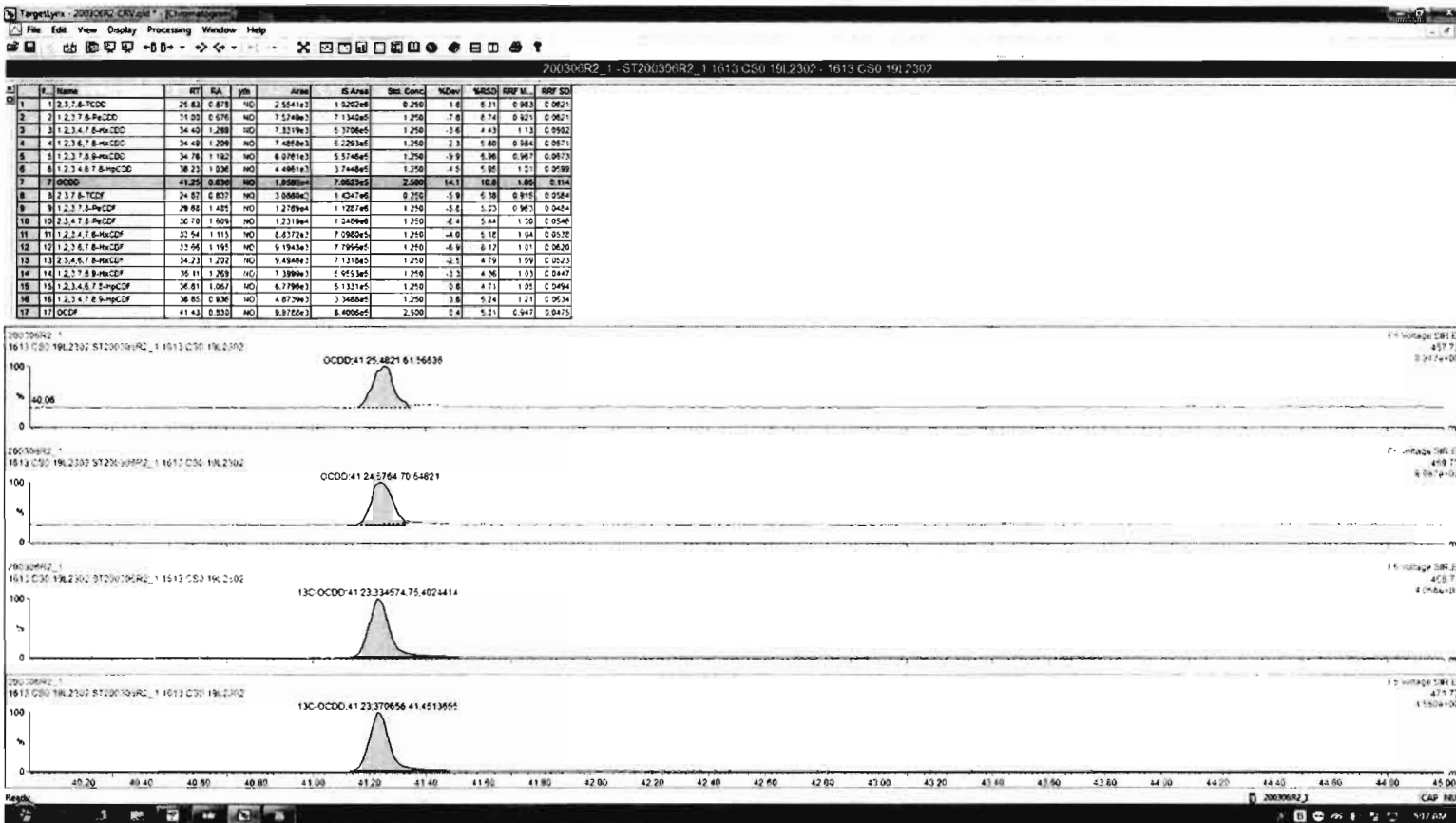


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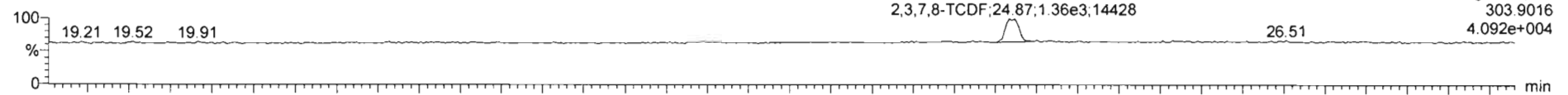
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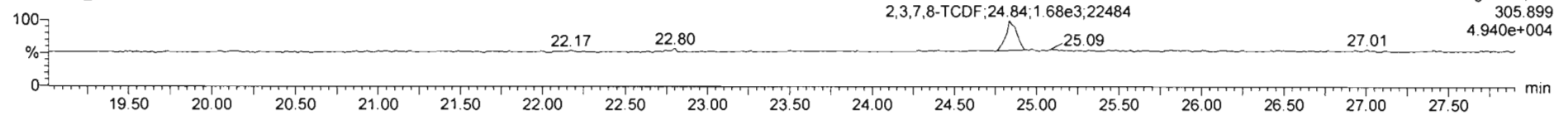
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2,3,7,8-TCDF

200306R2_1

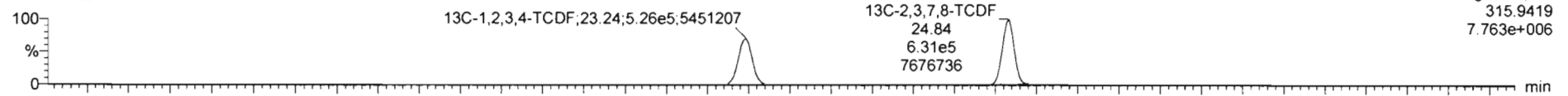


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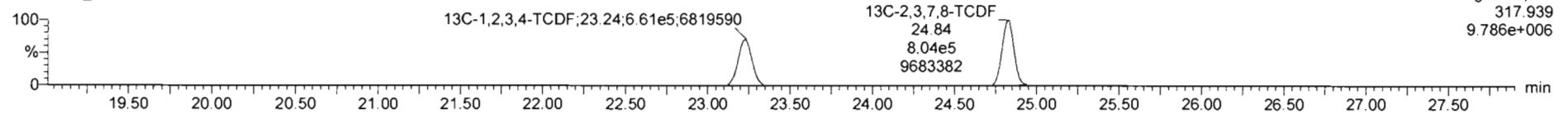


13C-2,3,7,8-TCDF

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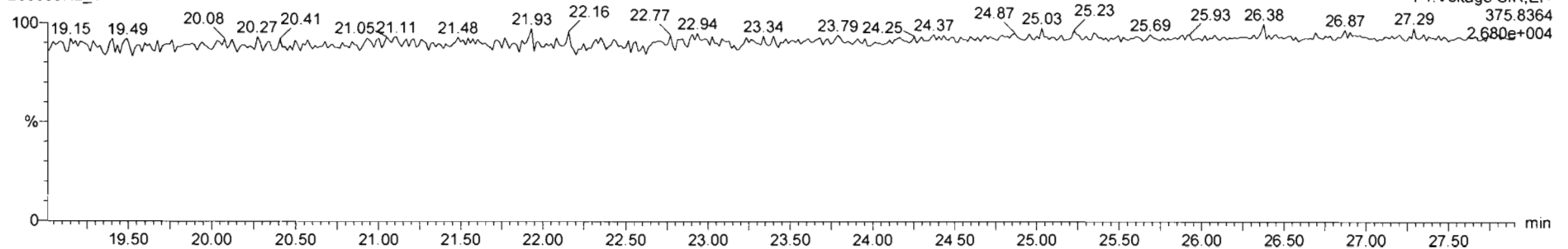


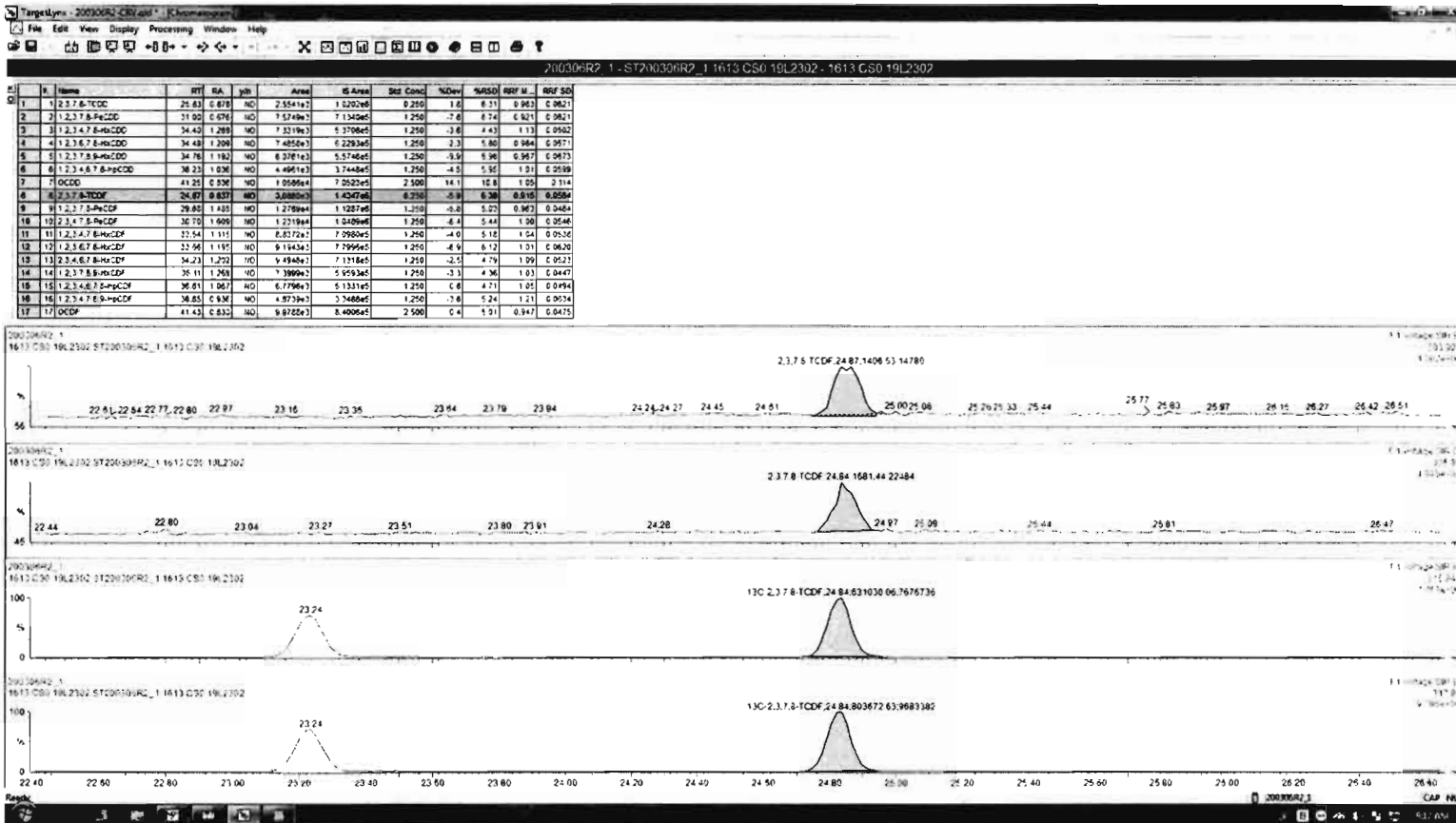
200306R2_1



DPE1

200306R2_1





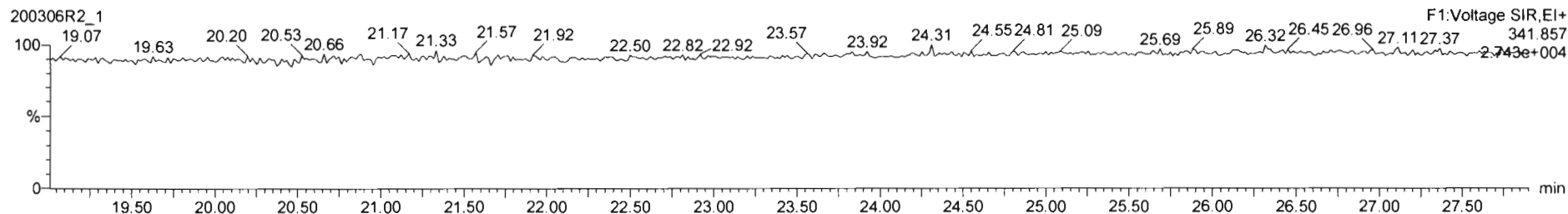
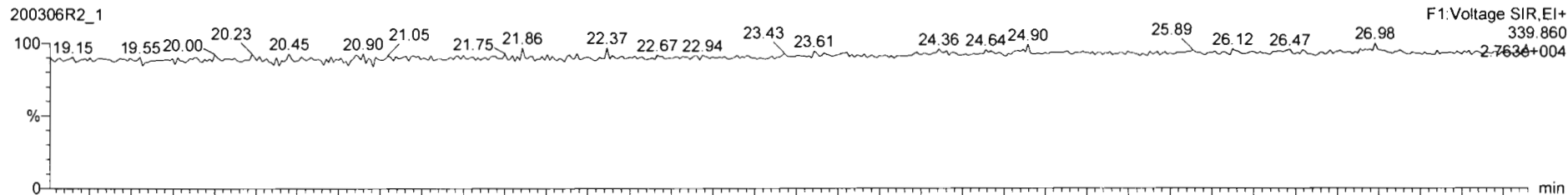
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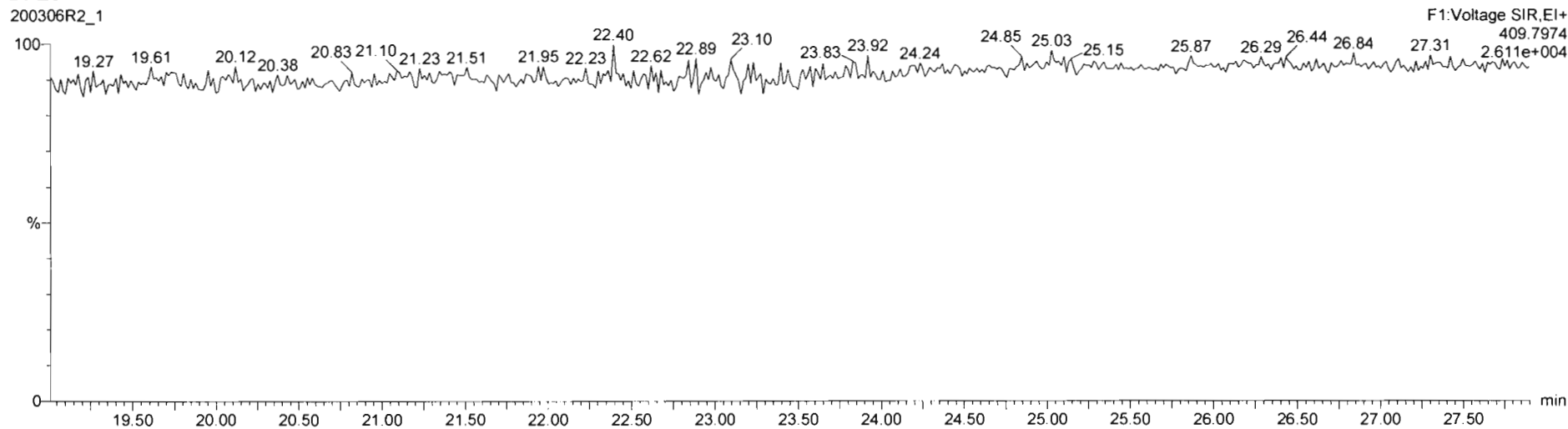
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Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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DPE6



Dataset: Untitled

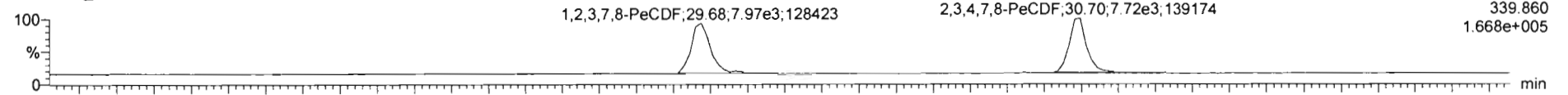
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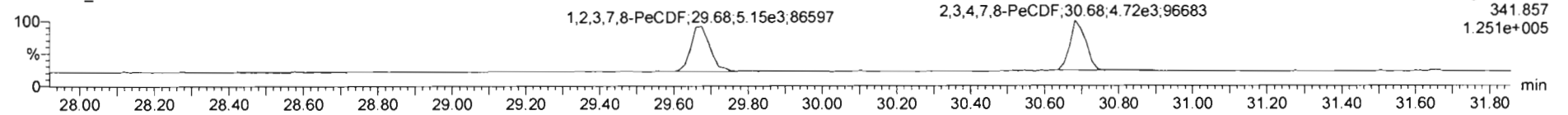
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1,2,3,7,8-PeCDF

200306R2_1

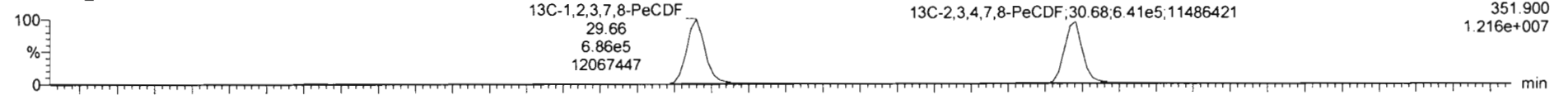


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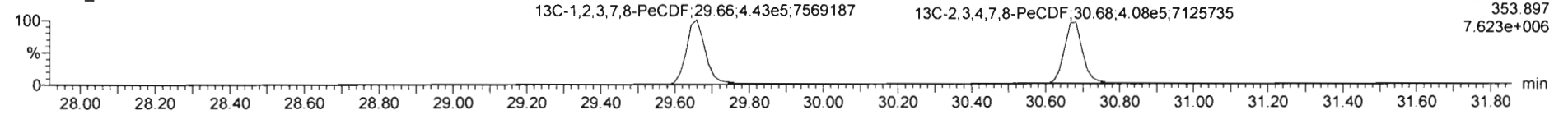


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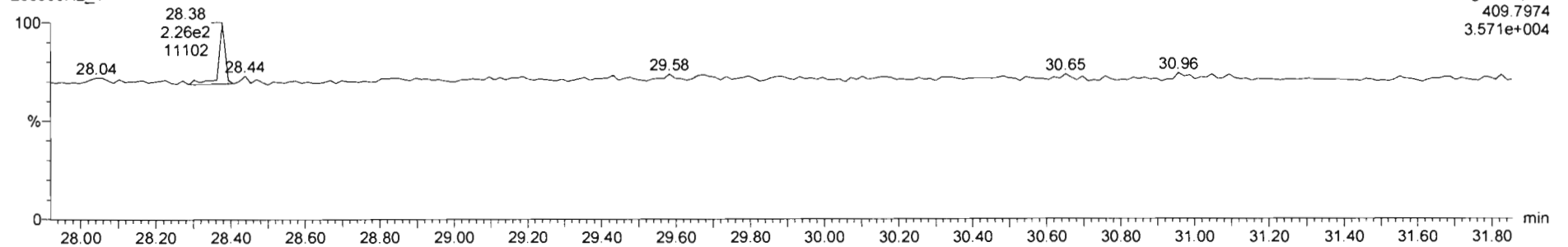


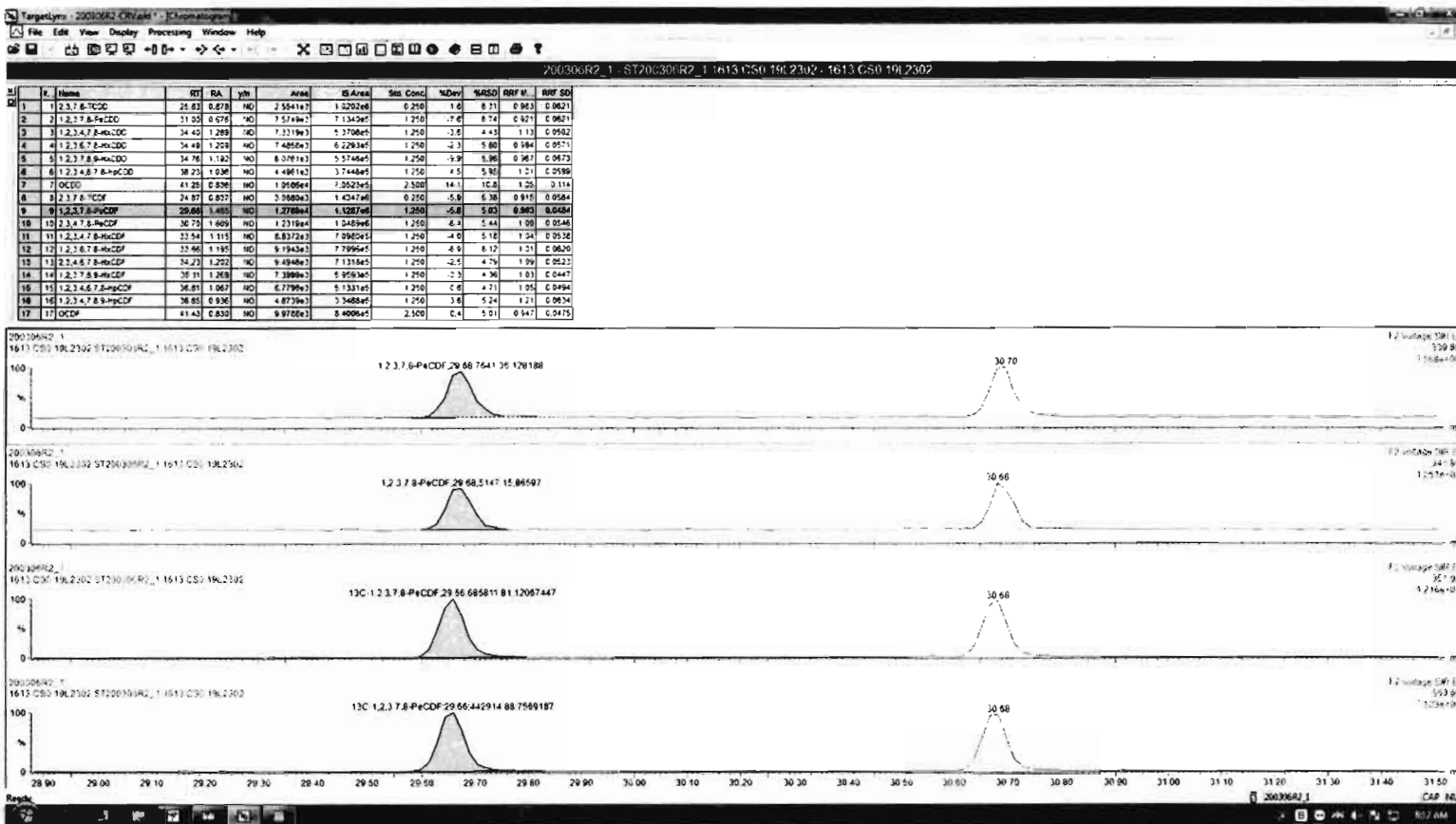
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DPE2

200306R2_1





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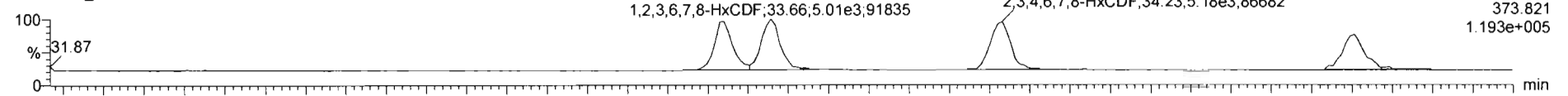
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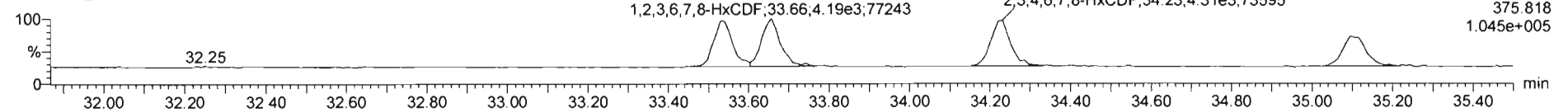
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1,2,3,4,7,8-HxCDF

200306R2_1

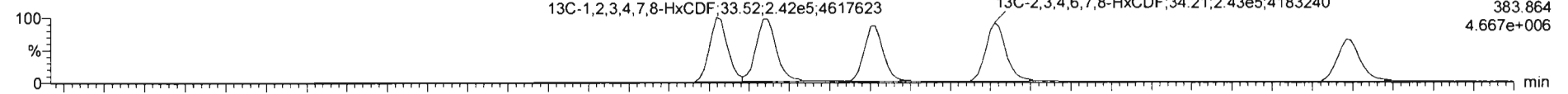


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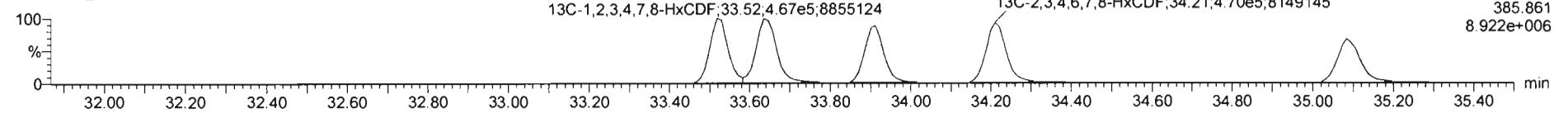


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200306R2_1

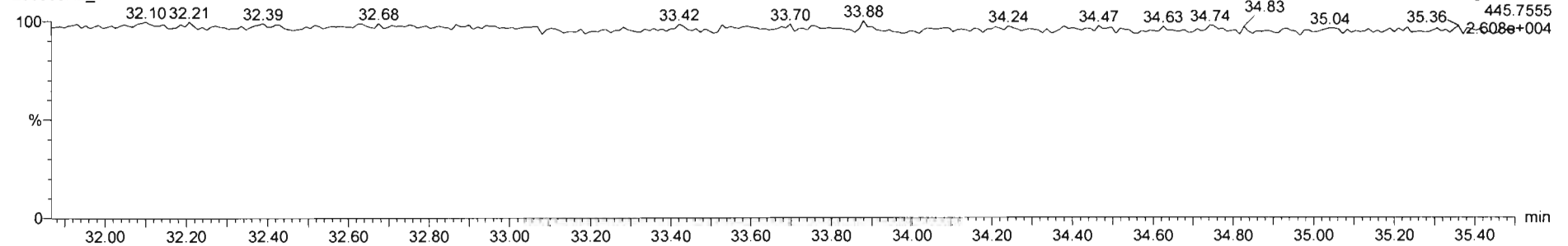


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DPE3

200306R2_1



Dataset: Untitled

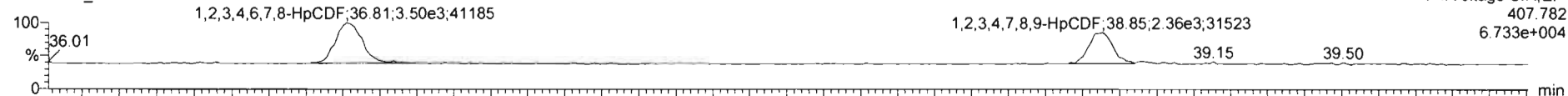
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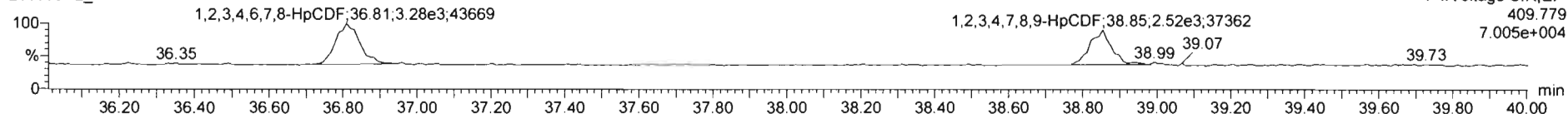
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1,2,3,4,6,7,8-HpCDF

200306R2_1

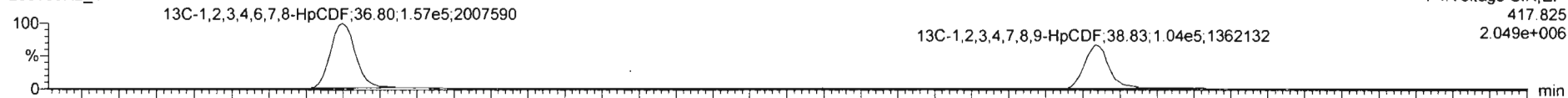


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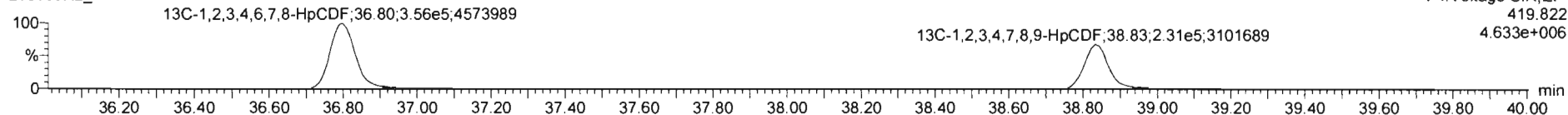


13C-1,2,3,4,6,7,8-HpCDF

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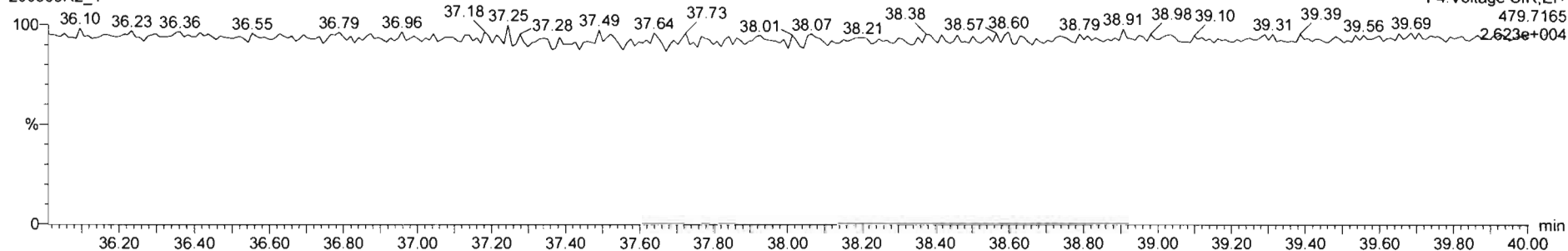


200306R2_1



DPE4

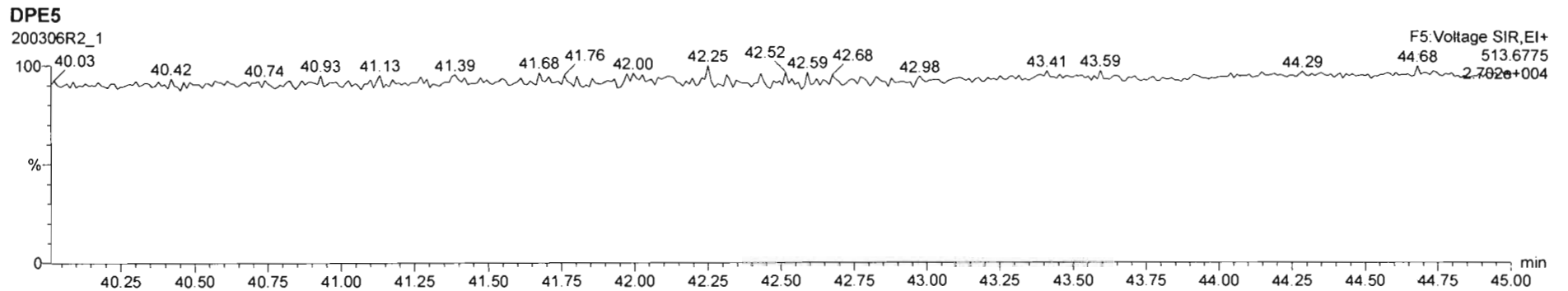
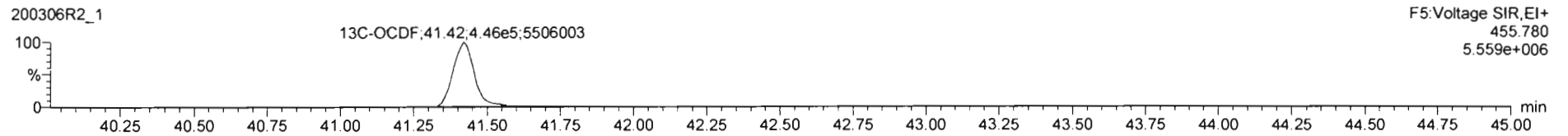
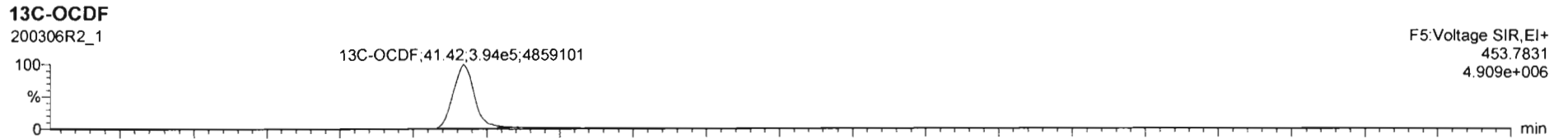
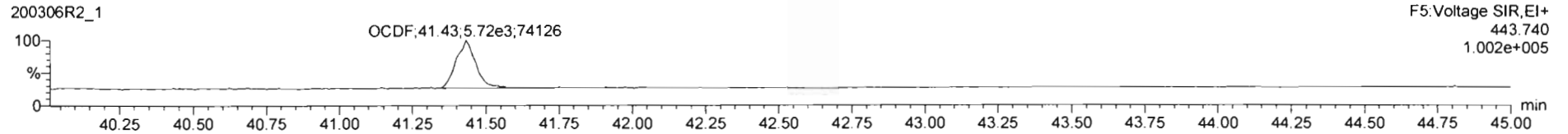
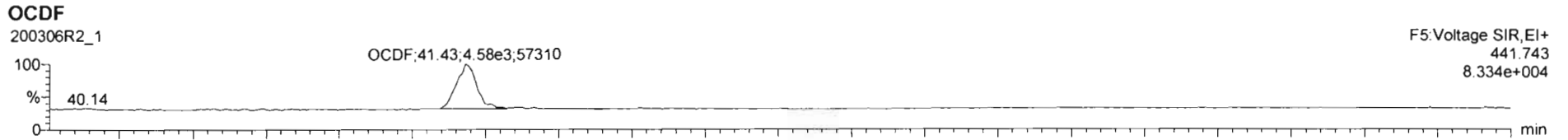
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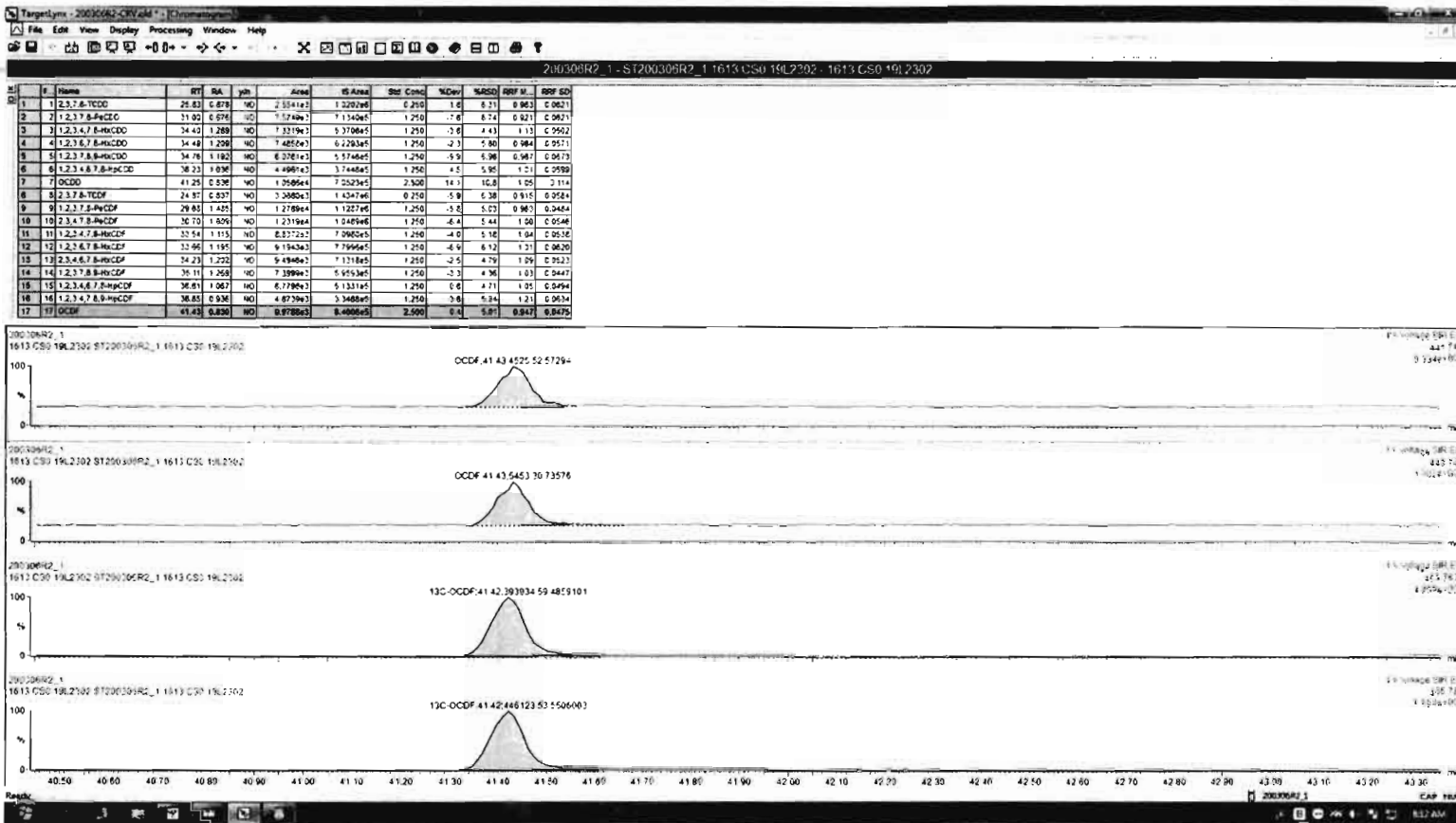


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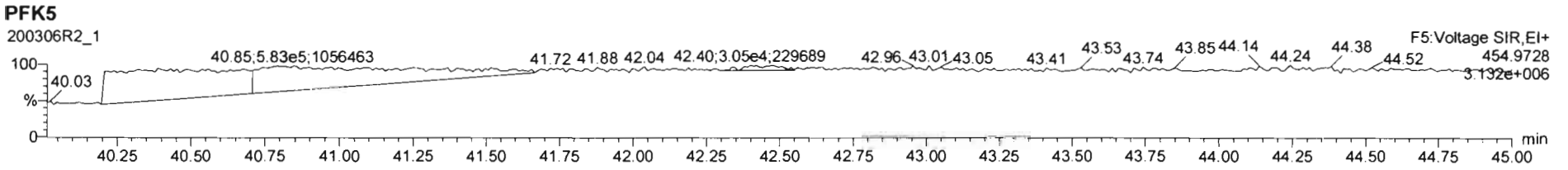
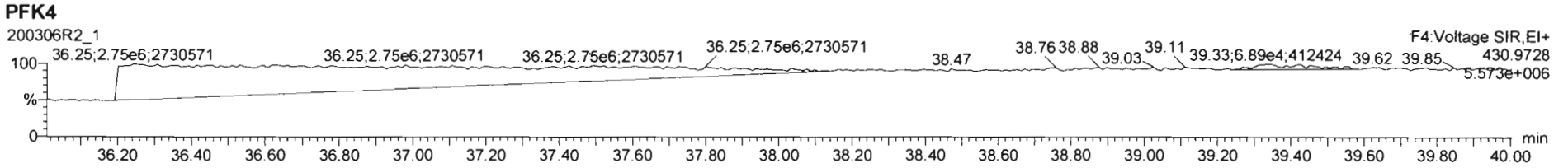
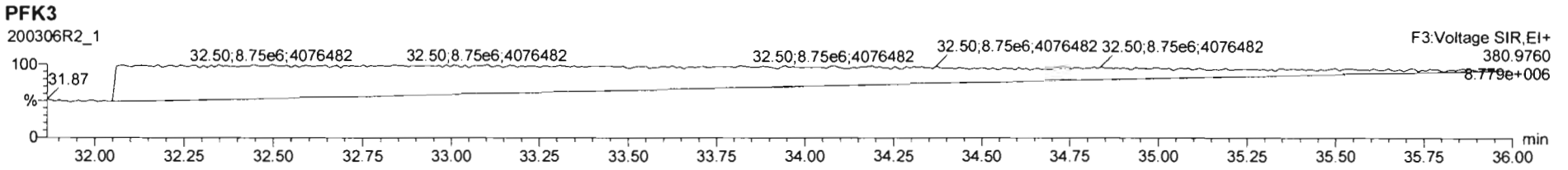
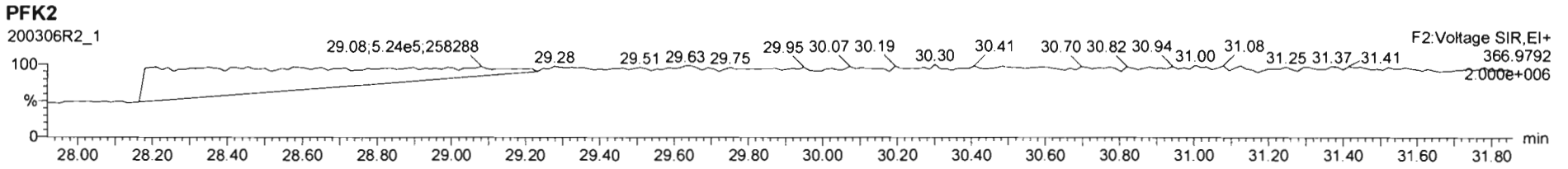
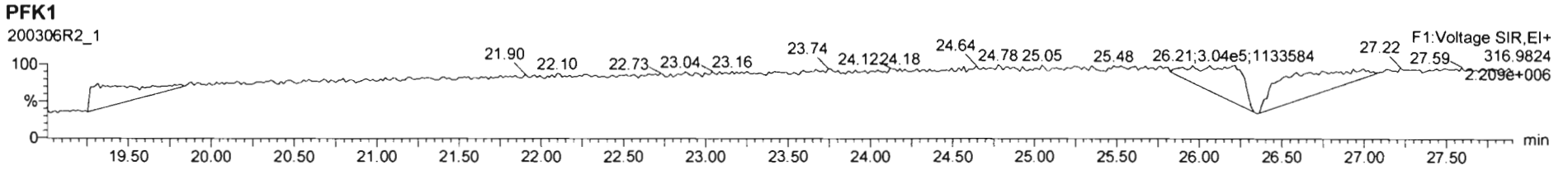




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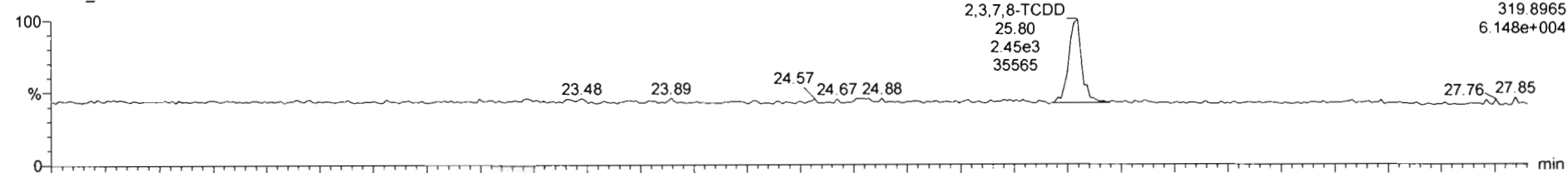
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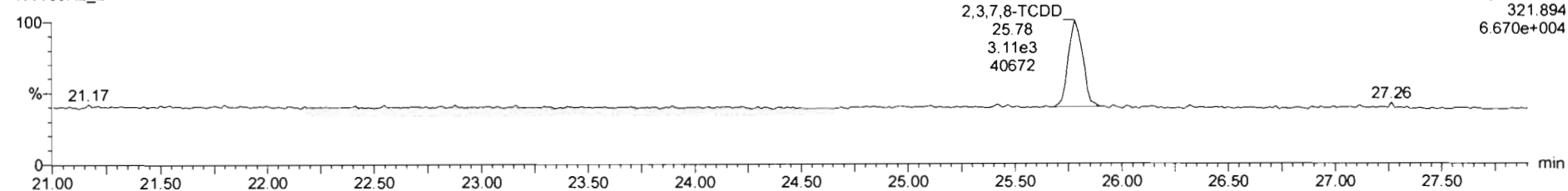
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2,3,7,8-TCDD

200306R2_2

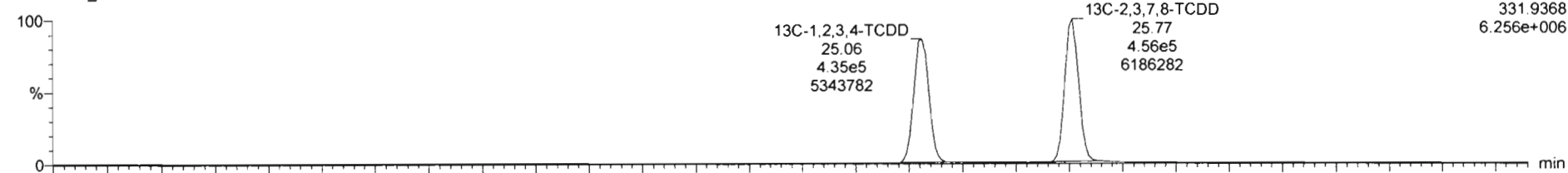


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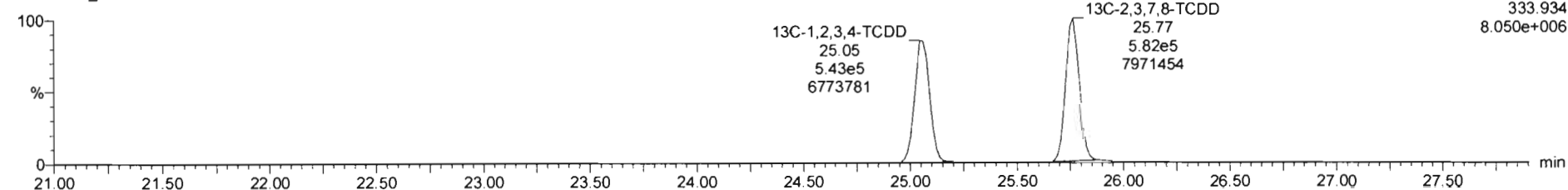


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



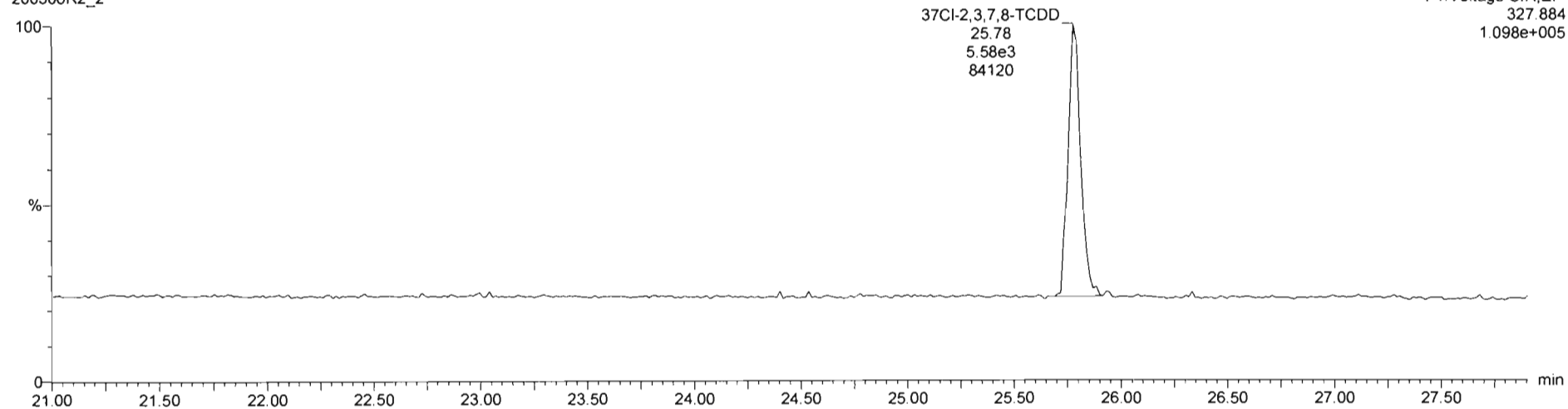
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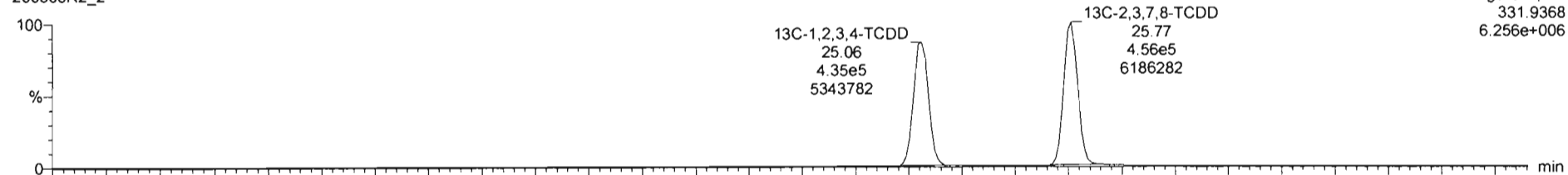
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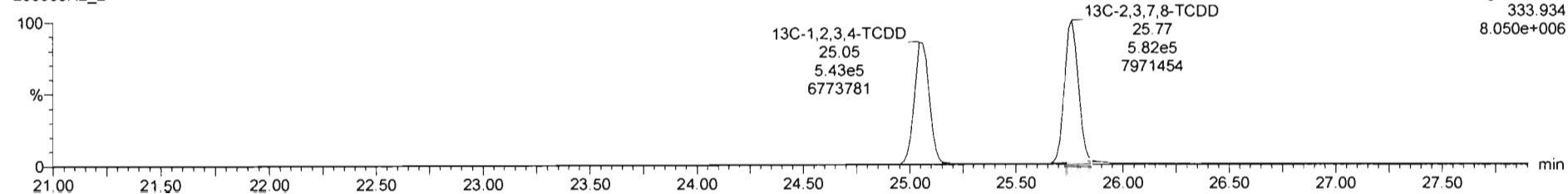


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



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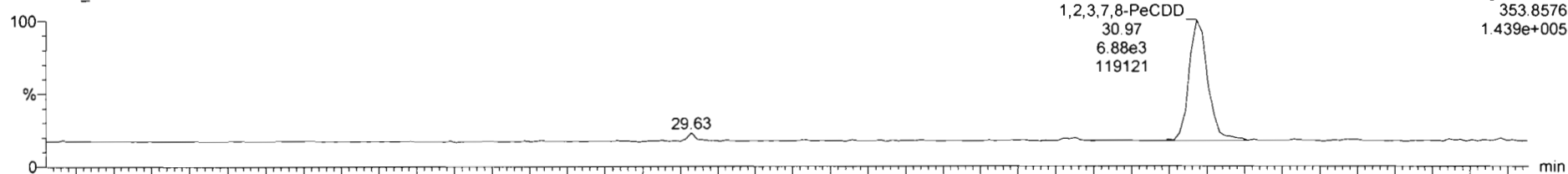
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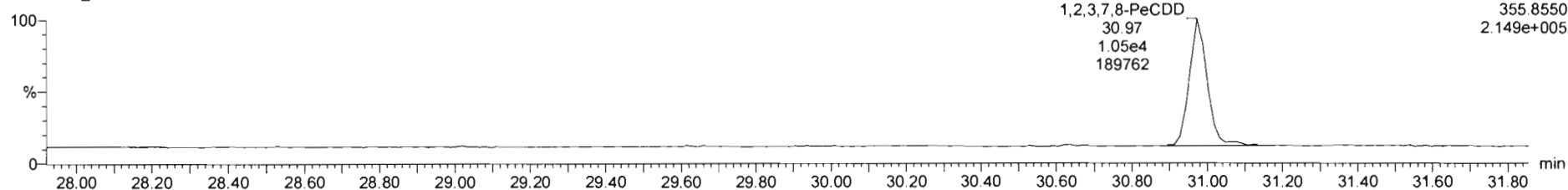
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1,2,3,7,8-PeCDD

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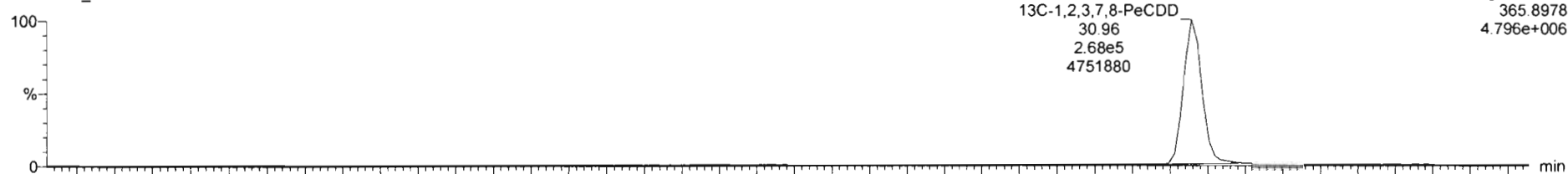


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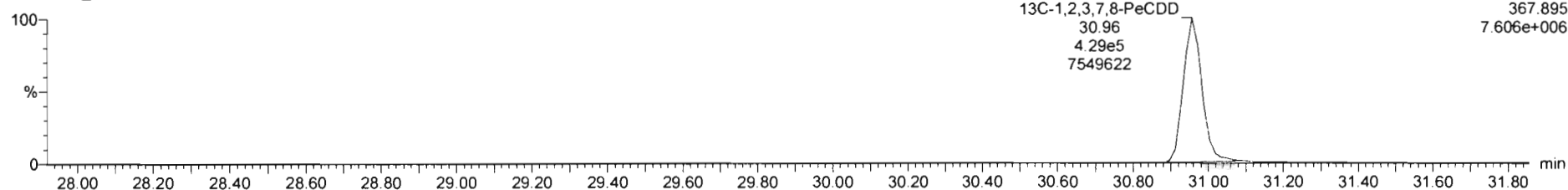


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200306R2_2



200306R2_2



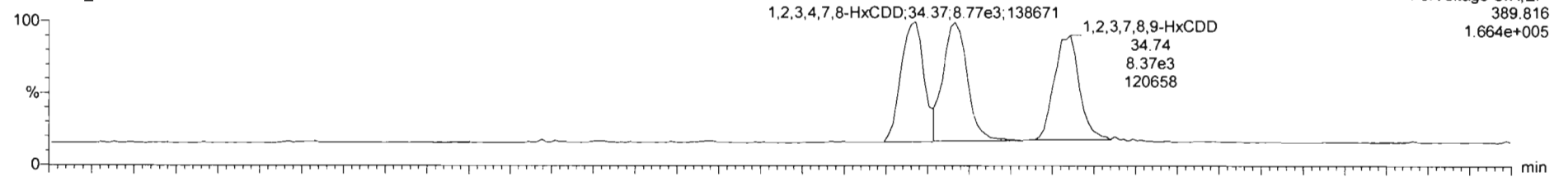
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

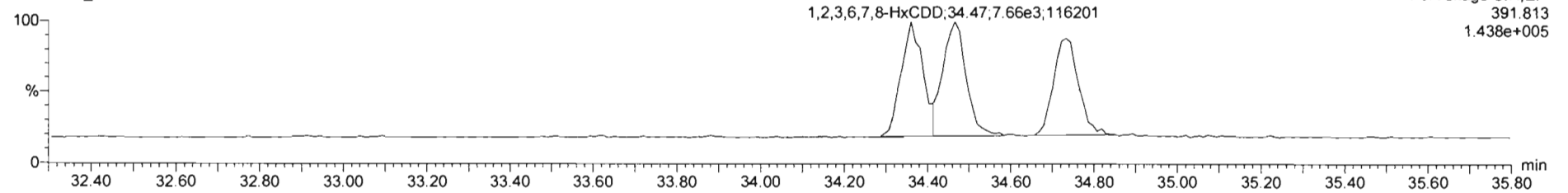
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1,2,3,4,7,8-HxCDD

200306R2_2

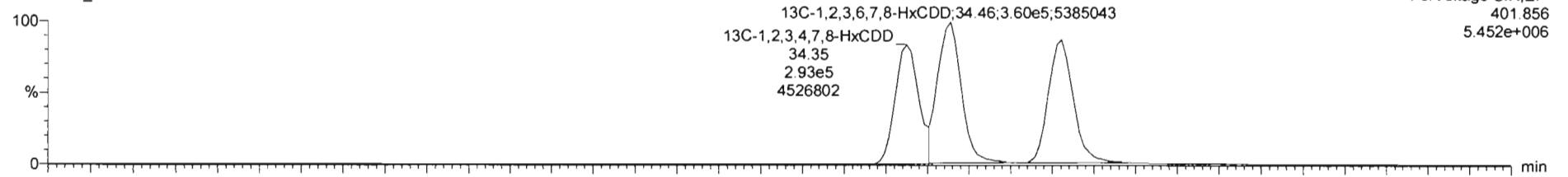


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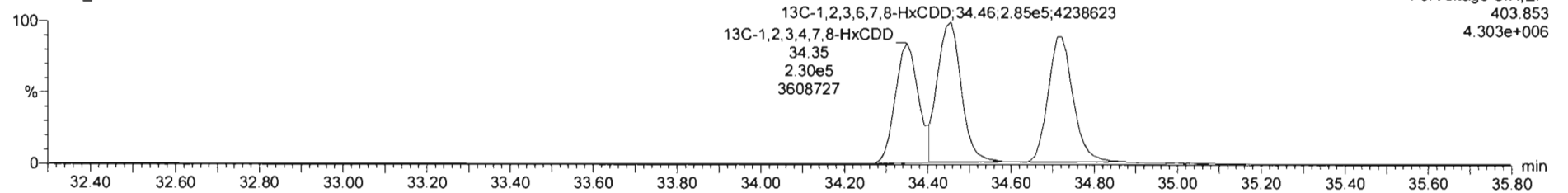


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



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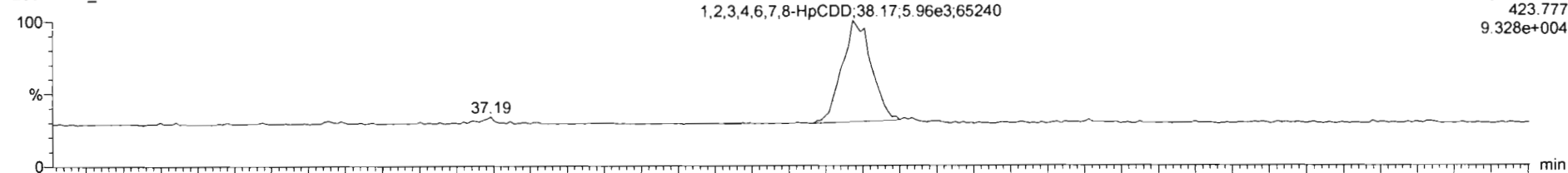
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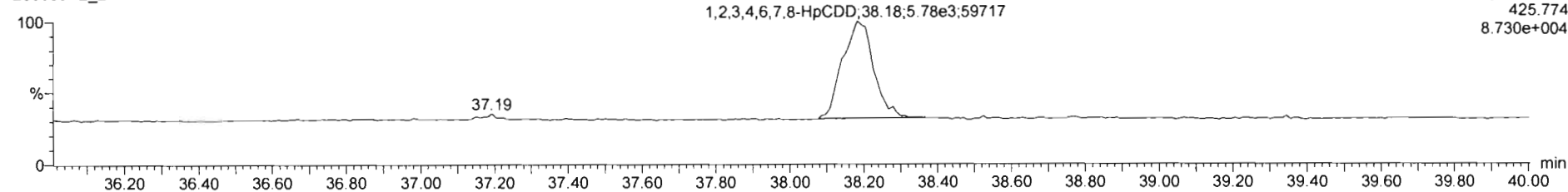
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

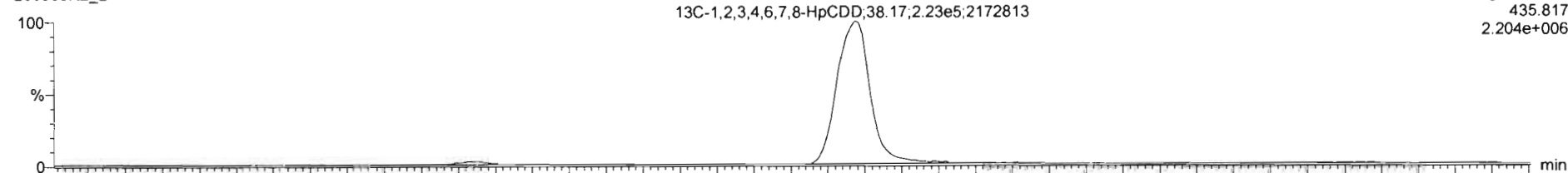
200306R2_2



F4: Voltage SIR, EI+
425.774
8.730e+004

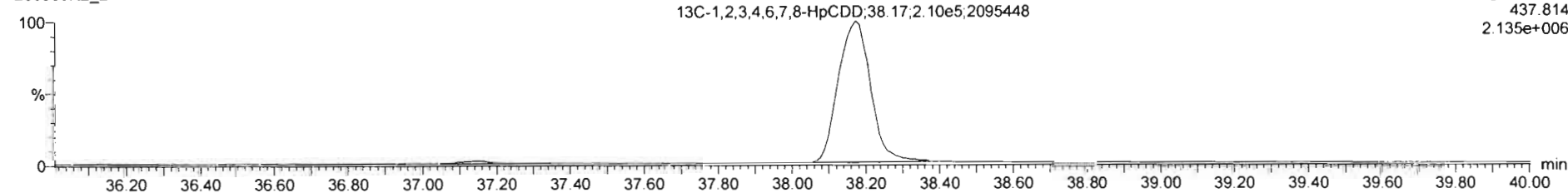
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

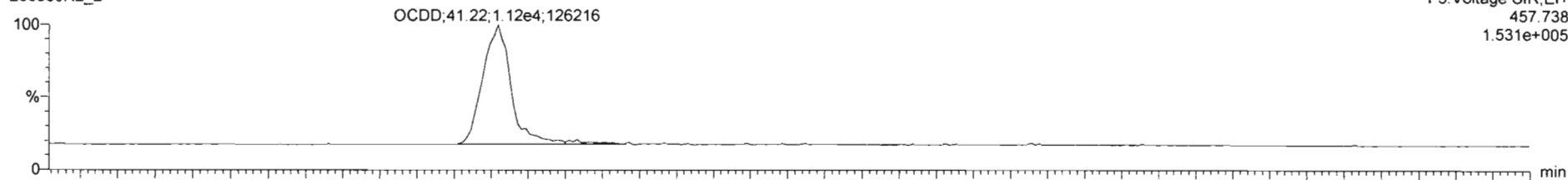
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

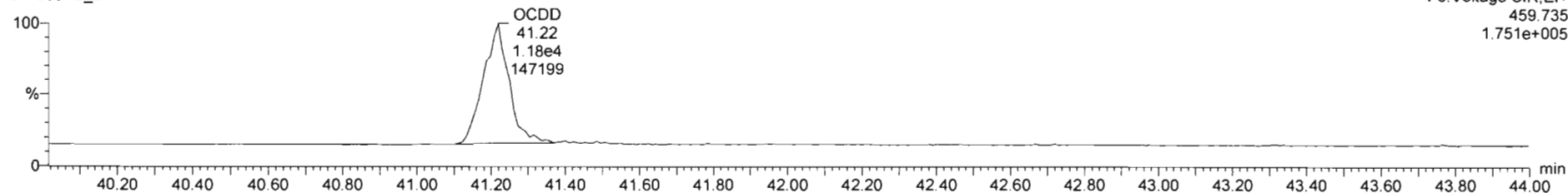
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OCDD

200306R2_2

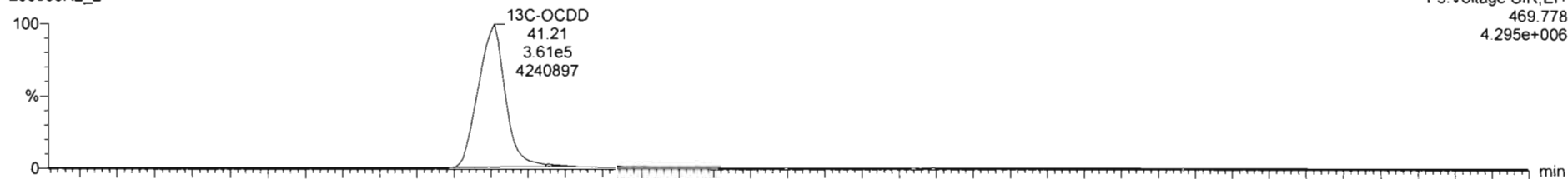


200306R2_2

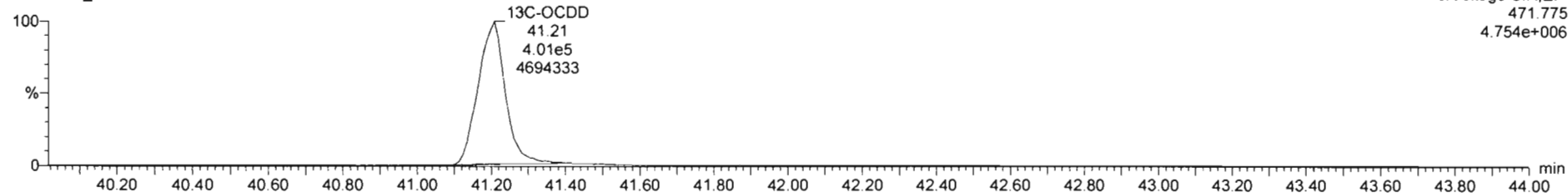


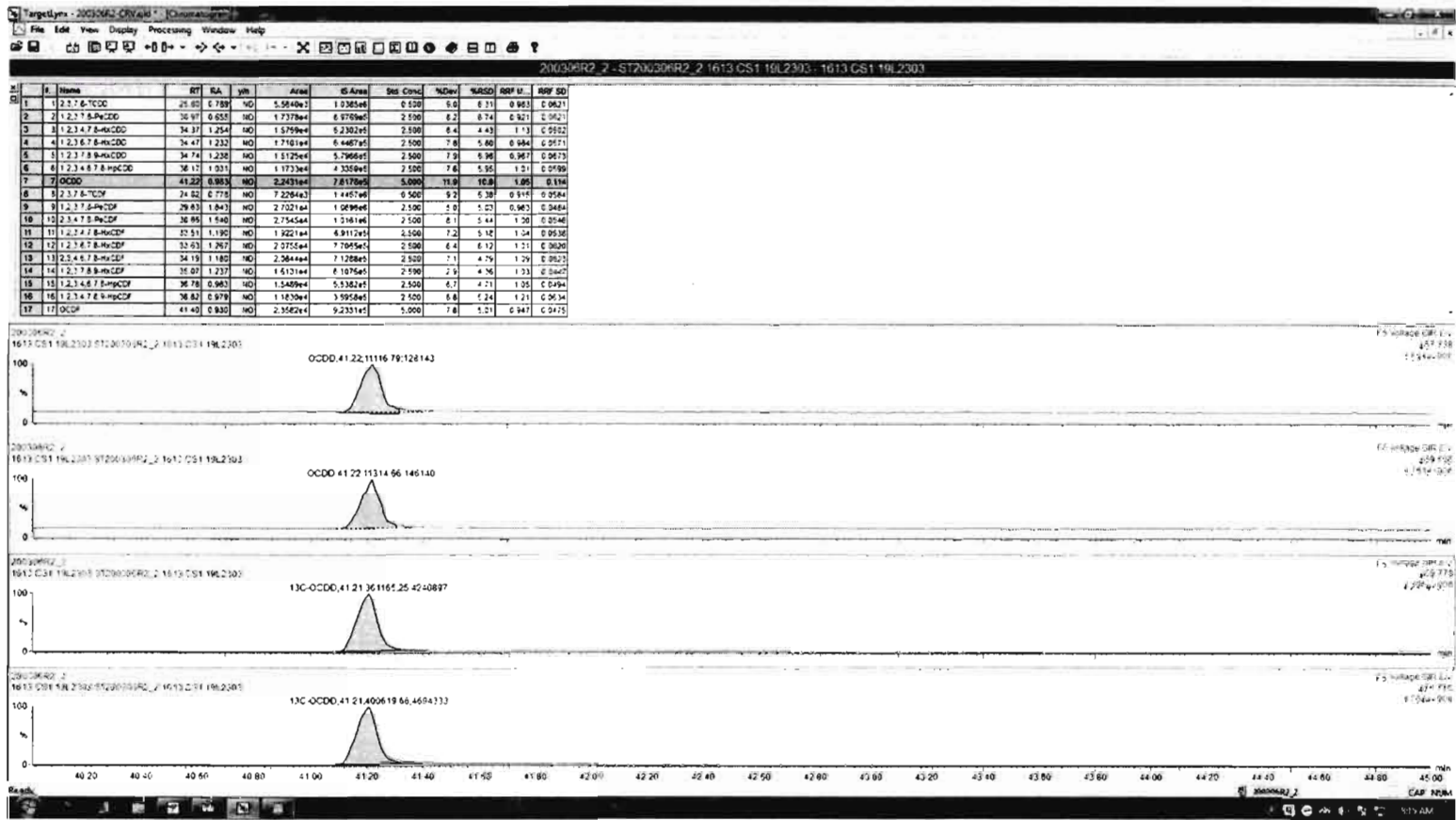
13C-OCDD

200306R2_2



200306R2_2





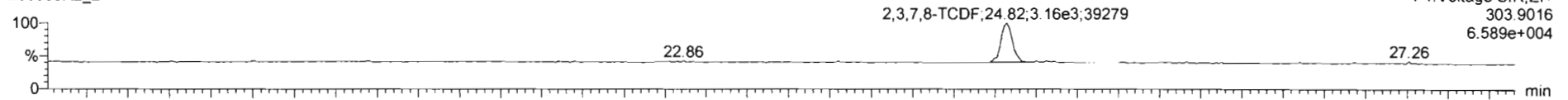
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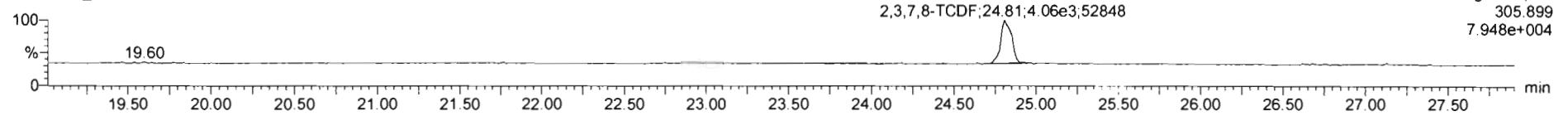
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2,3,7,8-TCDF

200306R2_2

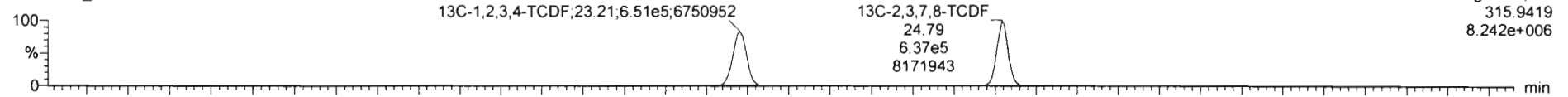


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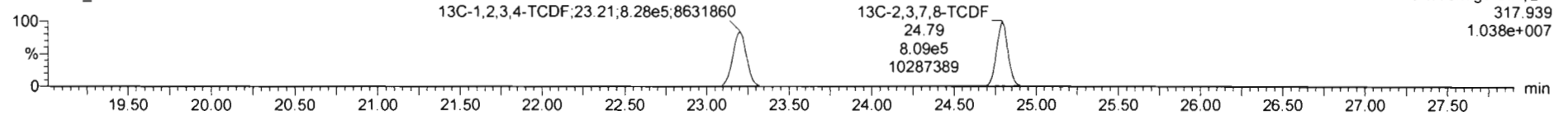


13C-2,3,7,8-TCDF

200306R2_2

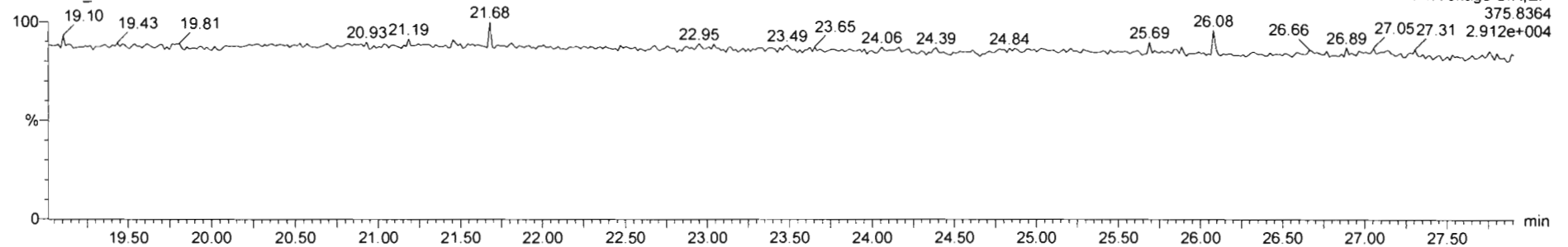


200306R2_2



DPE1

200306R2_2



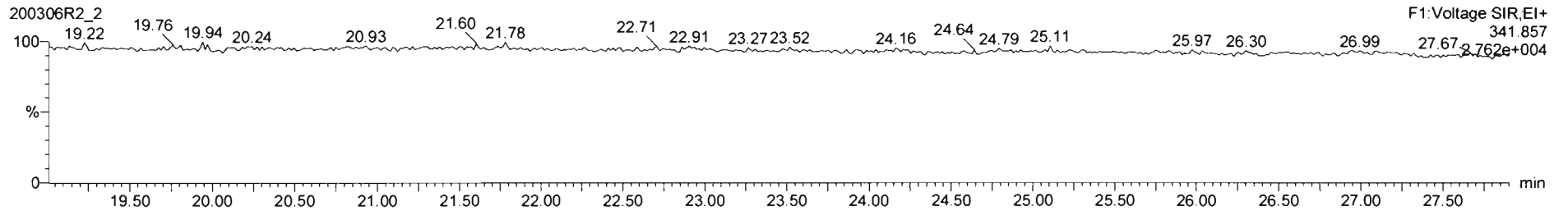
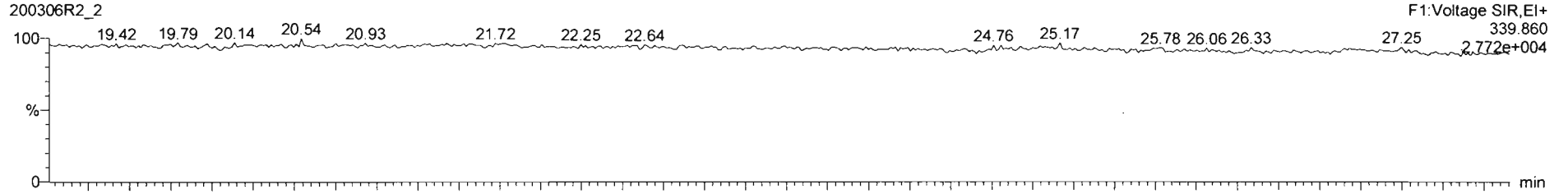
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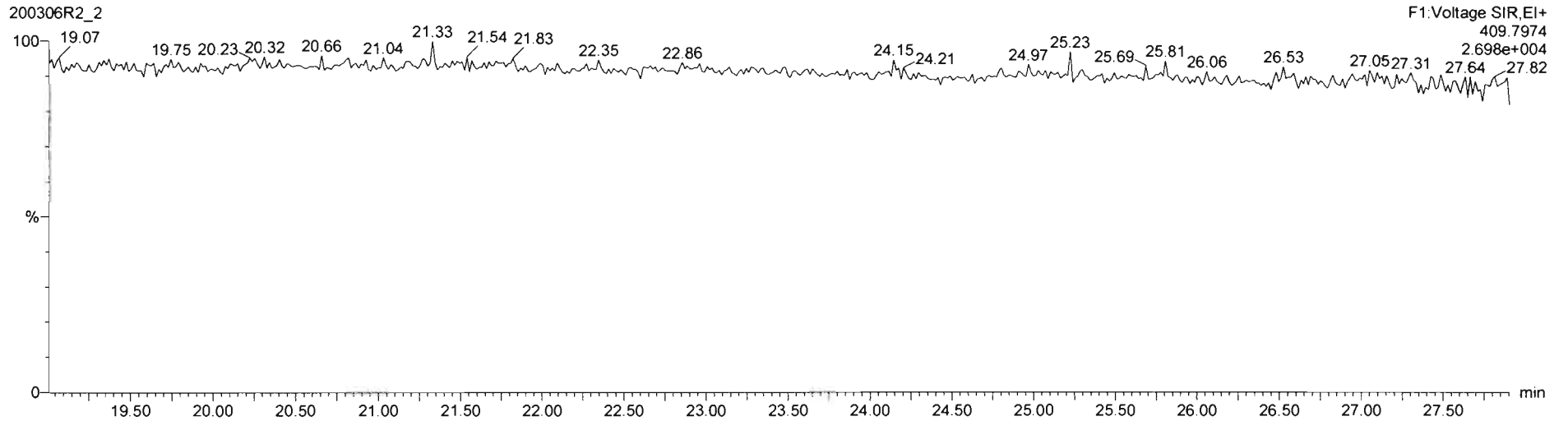
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1st Func. Penta-Furans



DPE6



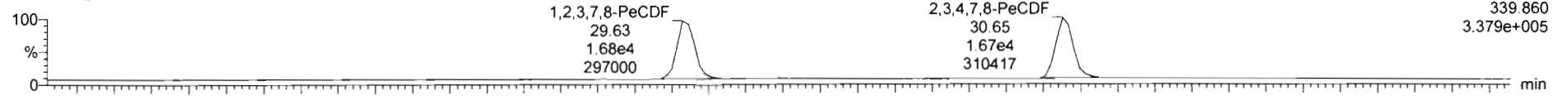
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

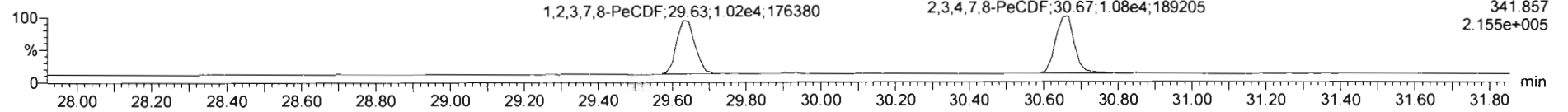
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1,2,3,7,8-PeCDF

200306R2_2

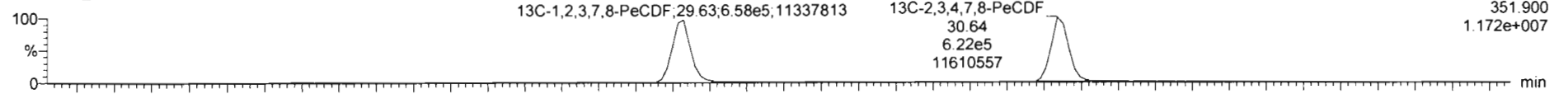


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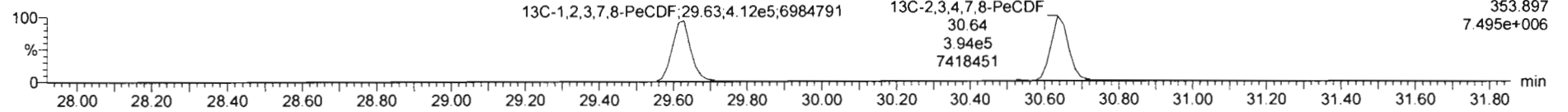


13C-1,2,3,7,8-PeCDF

200306R2_2

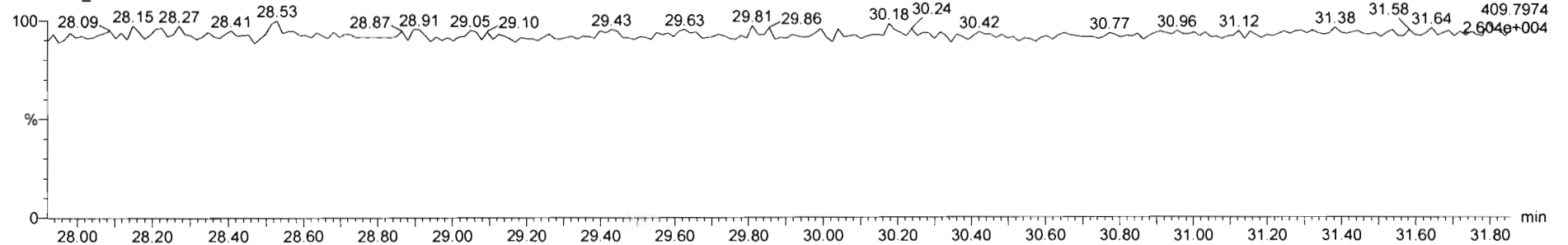


200306R2_2



DPE2

200306R2_2



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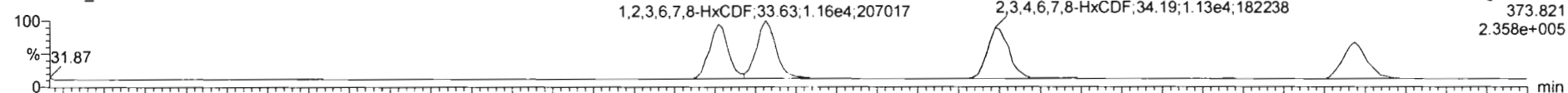
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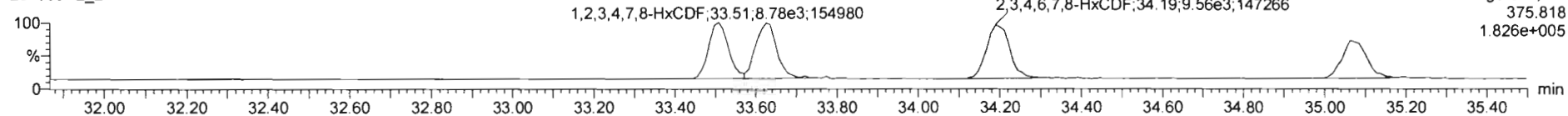
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1,2,3,4,7,8-HxCDF

200306R2_2

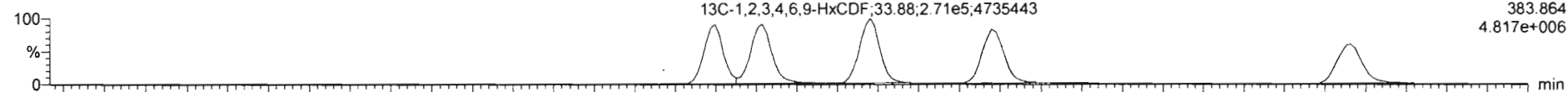


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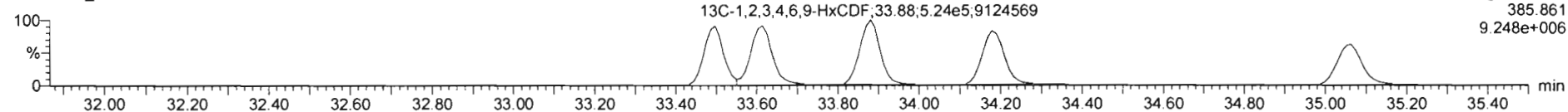


13C-1,2,3,4,7,8-HxCDF

200306R2_2

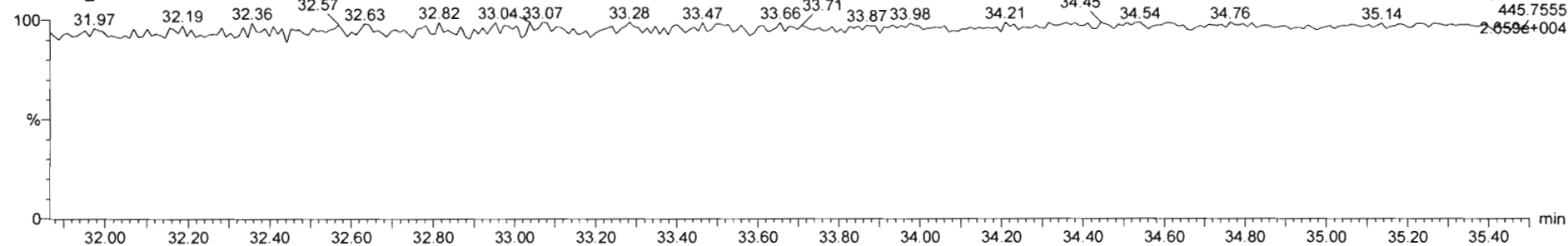


200306R2_2



DPE3

200306R2_2

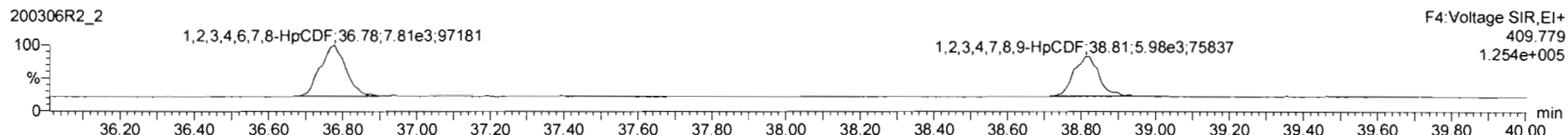
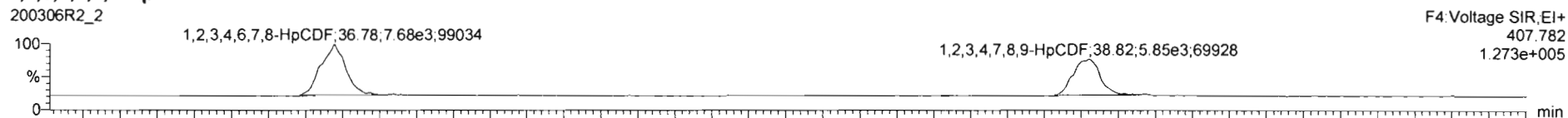


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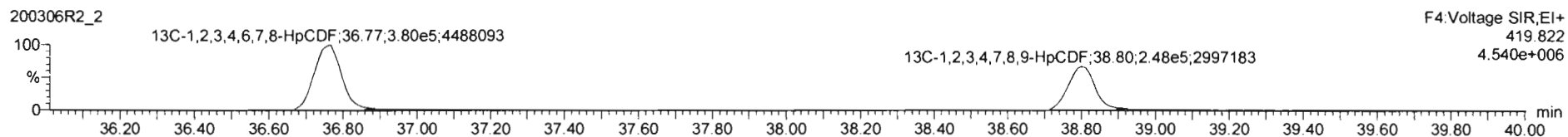
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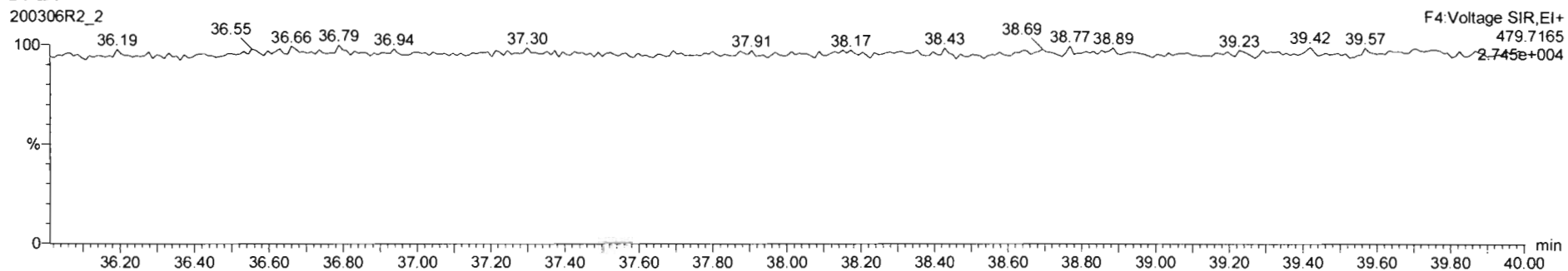
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4



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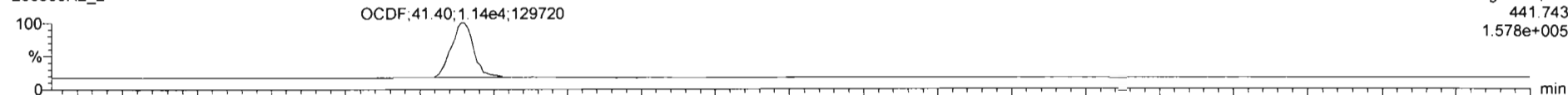
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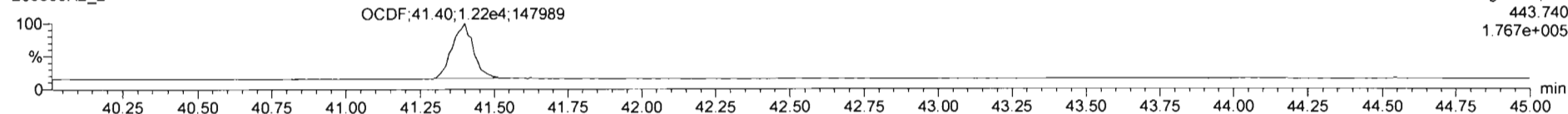
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OCDF

200306R2_2

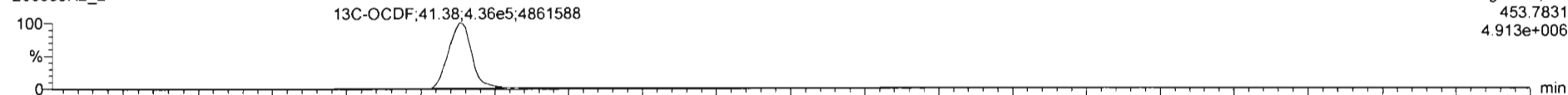


200306R2_2

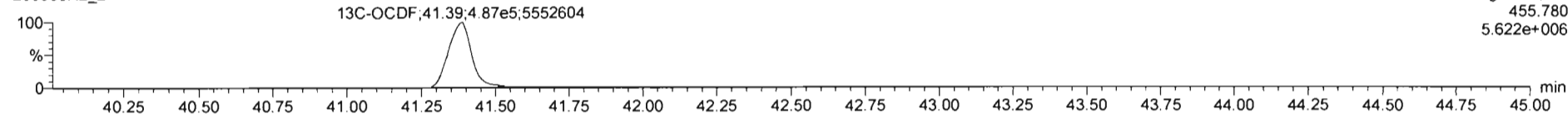


13C-OCDF

200306R2_2

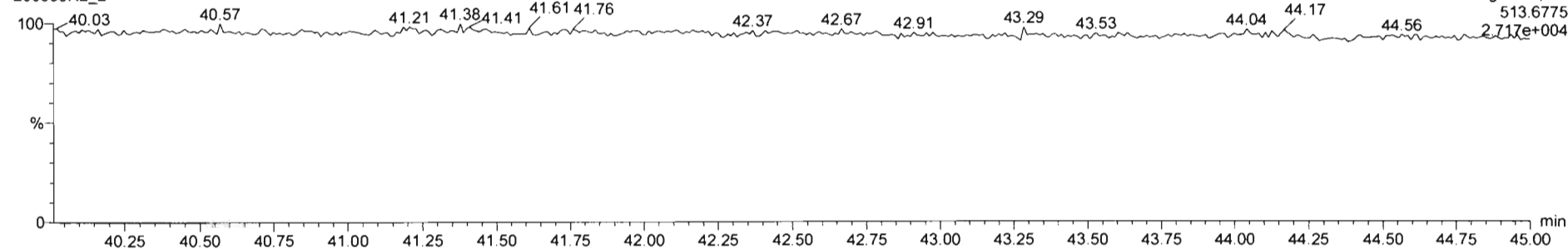


200306R2_2



DPE5

200306R2_2

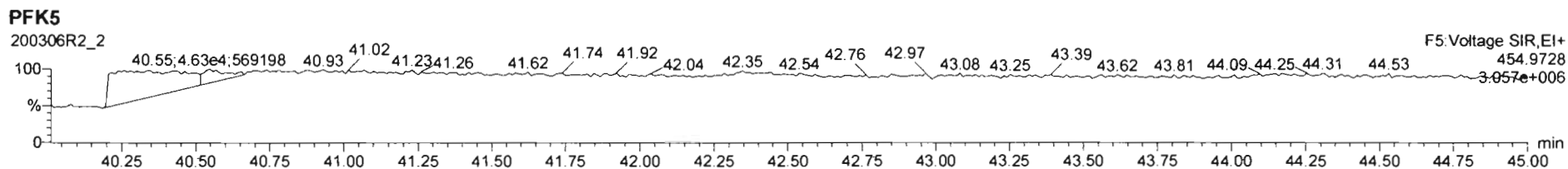
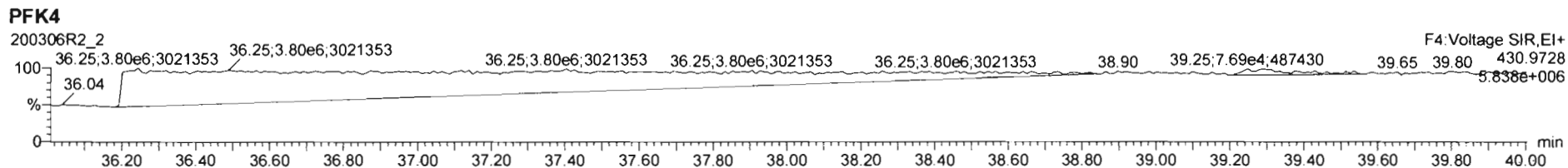
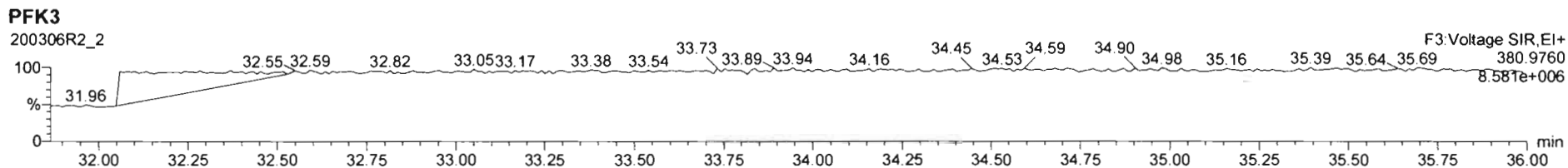
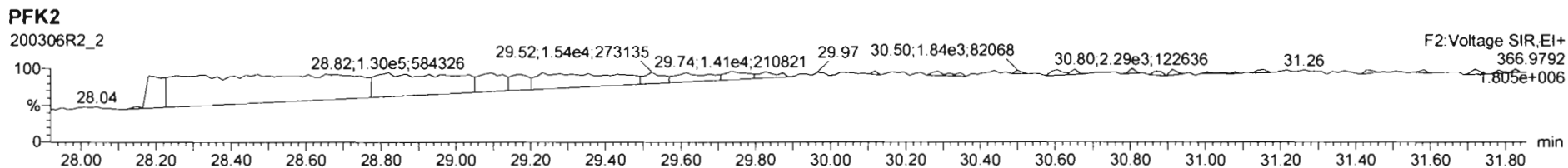
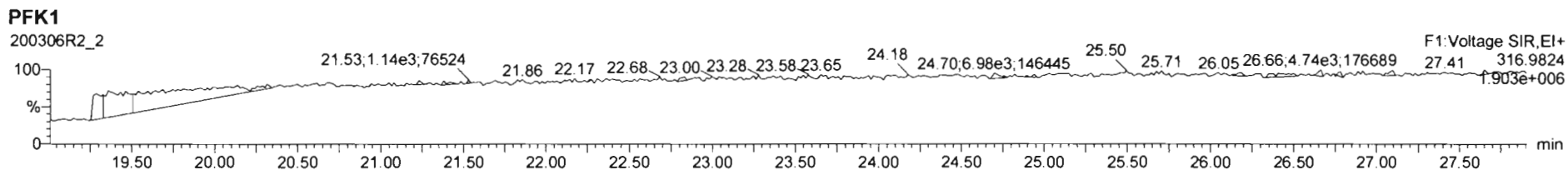


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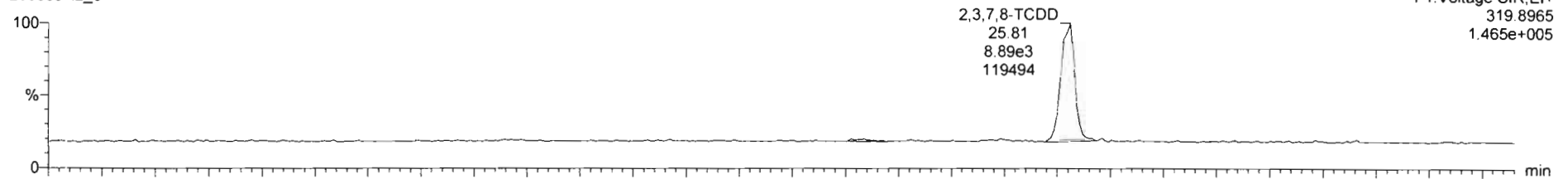
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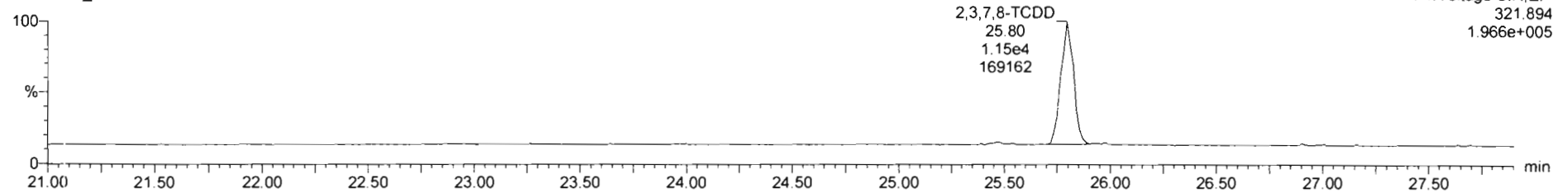
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2,3,7,8-TCDD

200306R2_3

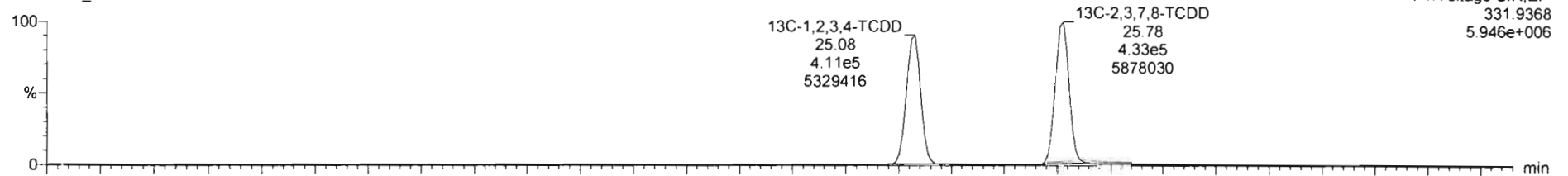


200306R2_3

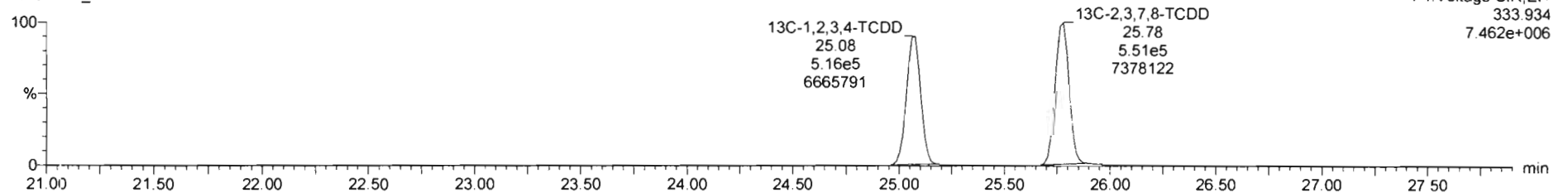


13C-2,3,7,8-TCDD

200306R2_3



200306R2_3



Dataset: Untitled

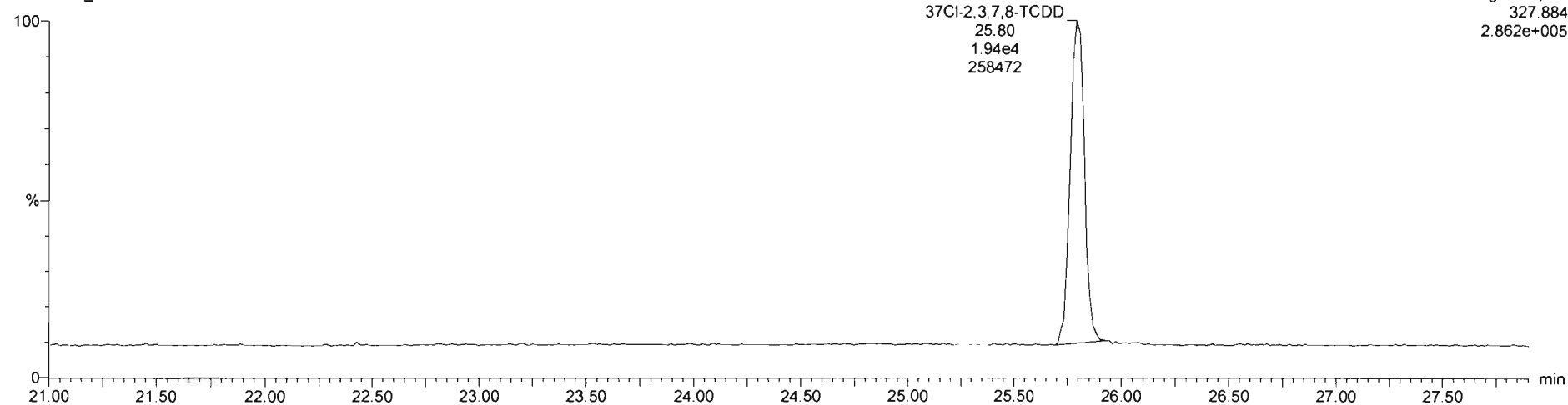
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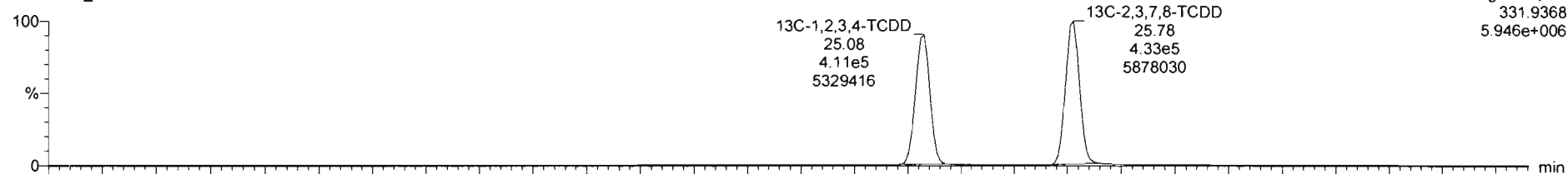
37Cl-2,3,7,8-TCDD

200306R2_3

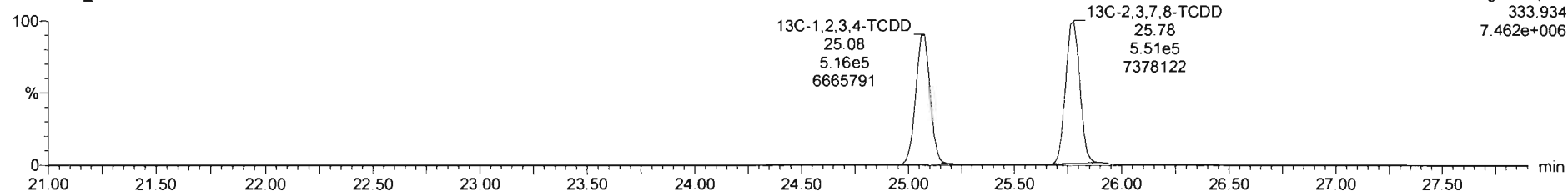


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



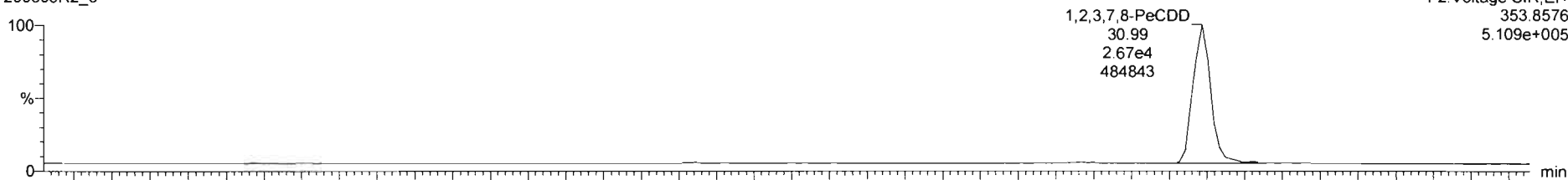
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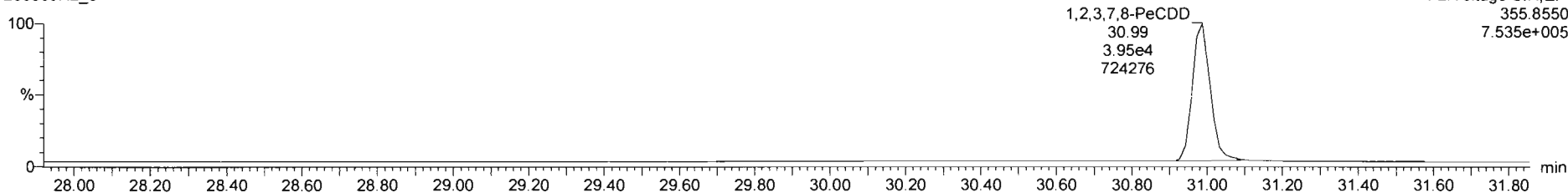
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1,2,3,7,8-PeCDD

200306R2_3

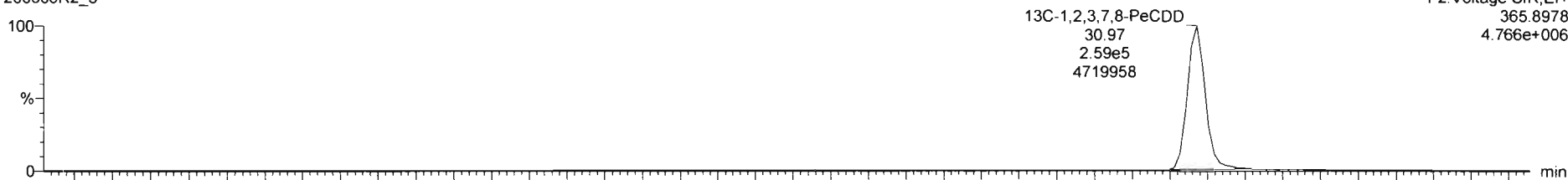


200306R2_3

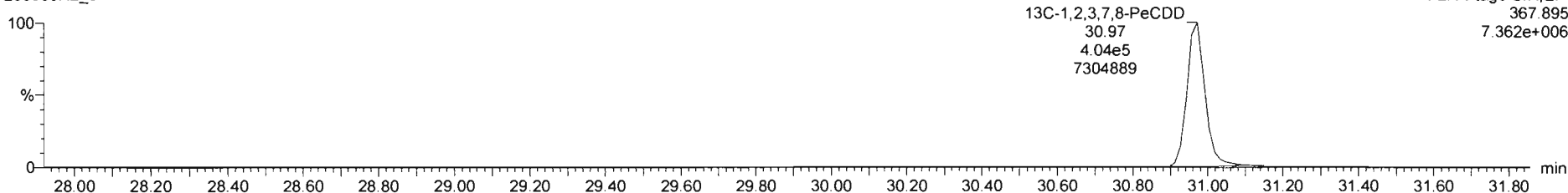


13C-1,2,3,7,8-PeCDD

200306R2_3



200306R2_3



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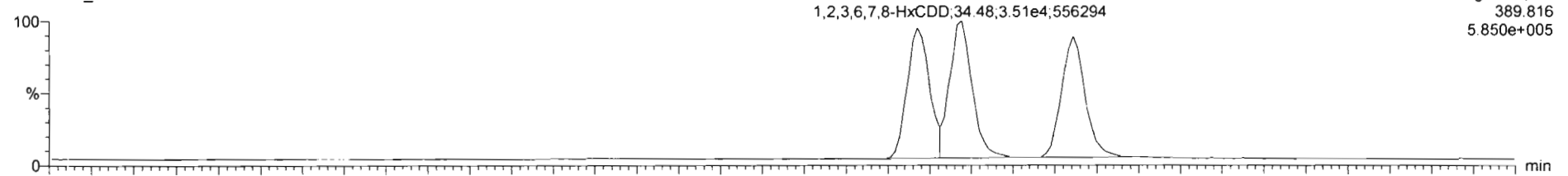
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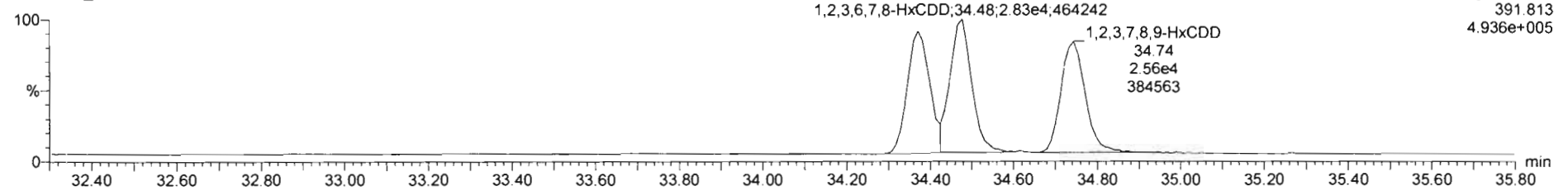
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1,2,3,4,7,8-HxCDD

200306R2_3

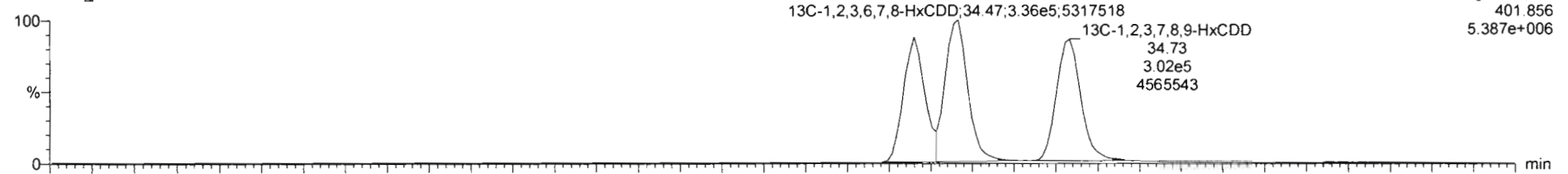


200306R2_3

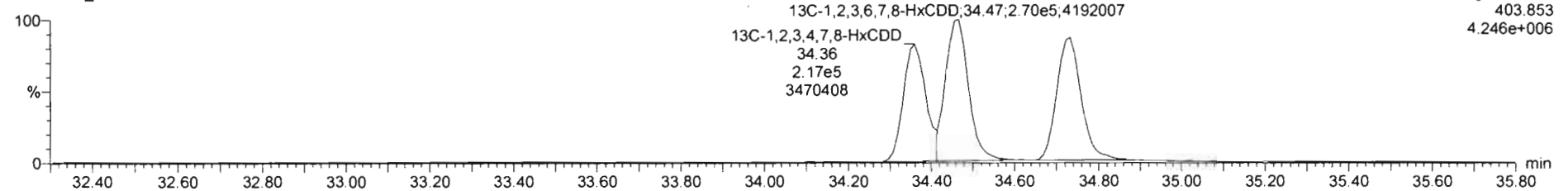


13C-1,2,3,4,7,8-HxCDD

200306R2_3



200306R2_3



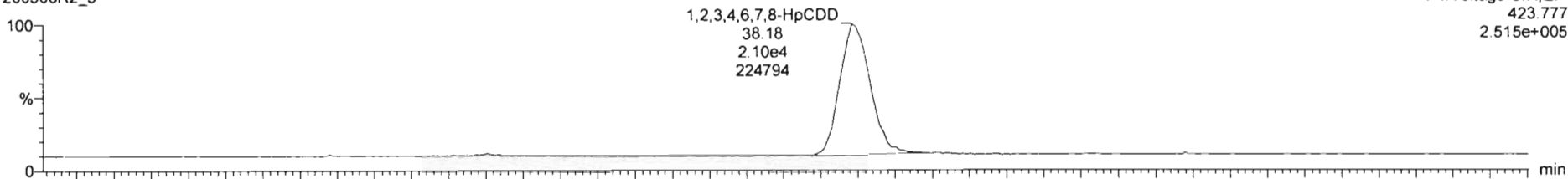
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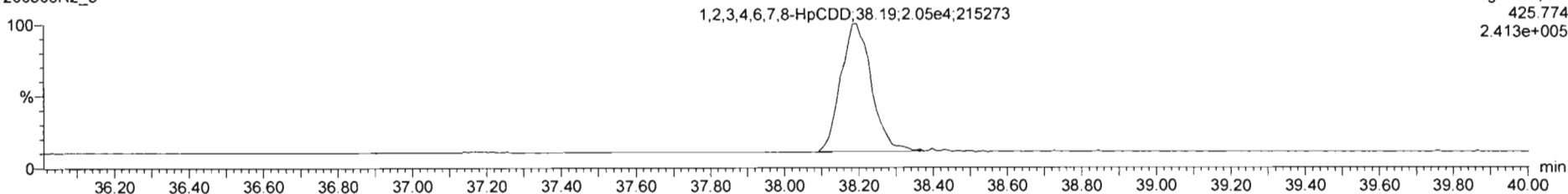
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1,2,3,4,6,7,8-HpCDD

200306R2_3

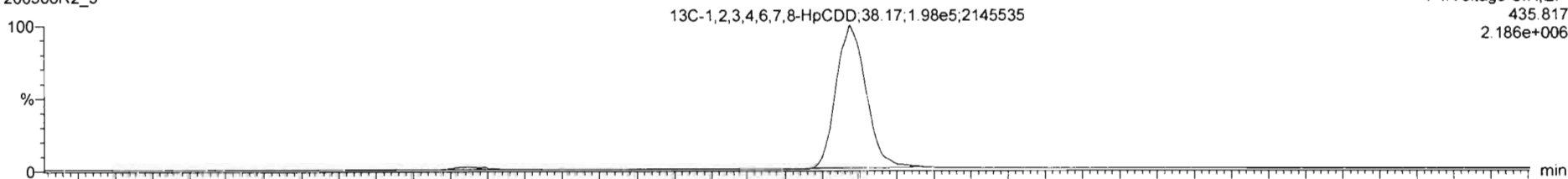


200306R2_3

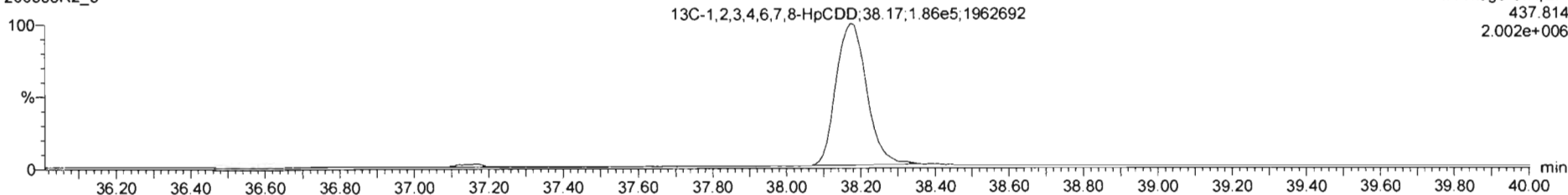


13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



200306R2_3



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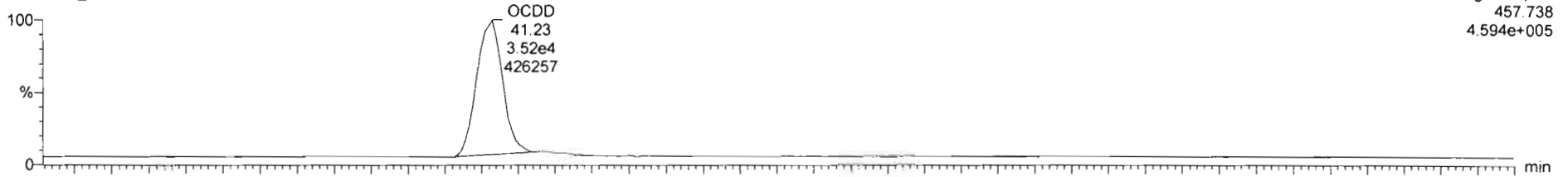
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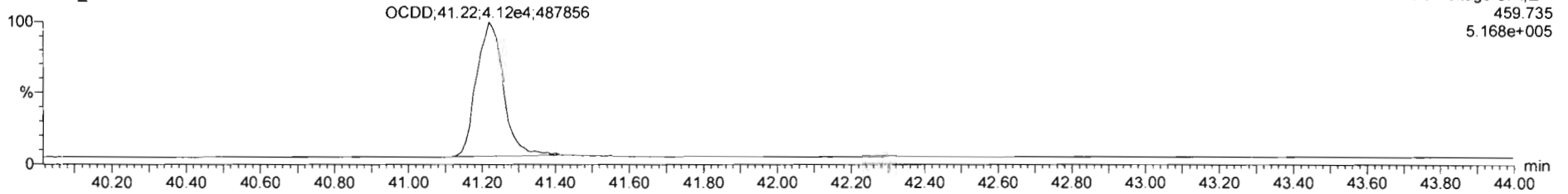
OCDD

200306R2_3



F5:Voltage SIR,EI+
457.738
4.594e+005

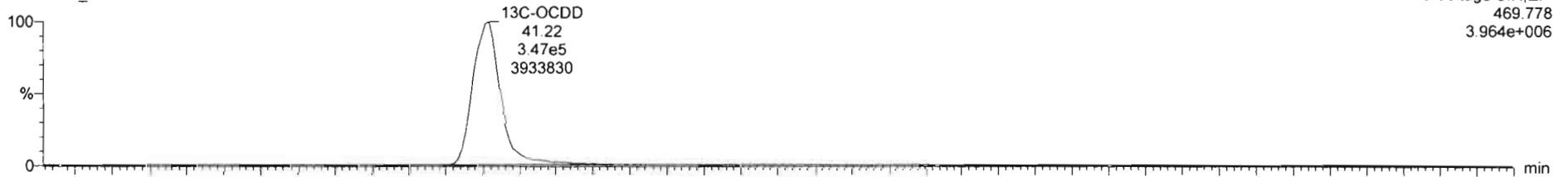
200306R2_3



F5:Voltage SIR,EI+
459.735
5.168e+005

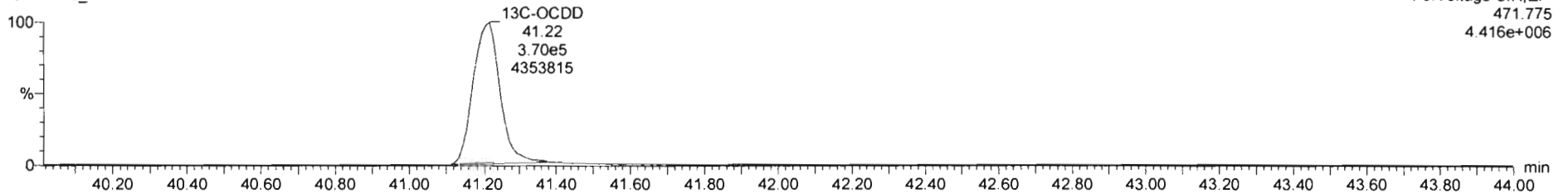
13C-OCDD

200306R2_3



F5:Voltage SIR,EI+
469.778
3.964e+006

200306R2_3



F5:Voltage SIR,EI+
471.775
4.416e+006

Dataset: Untitled

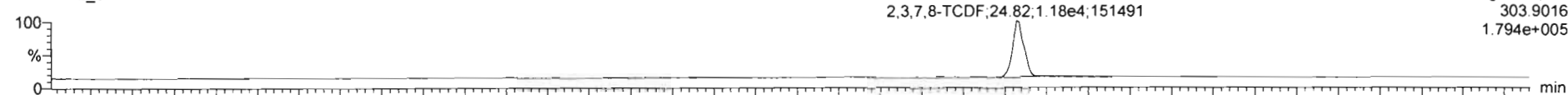
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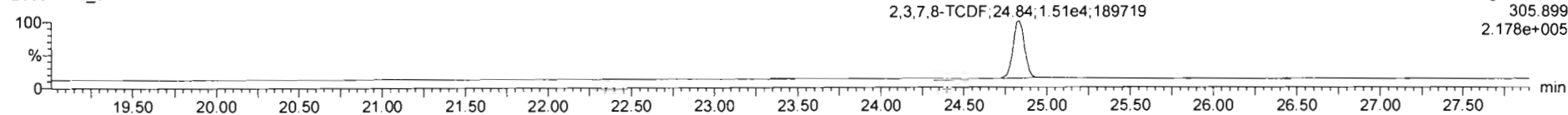
2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
303.9016
1.794e+005

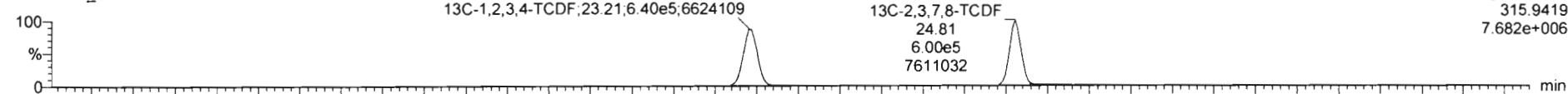
200306R2_3



F1:Voltage SIR,EI+
305.899
2.178e+005

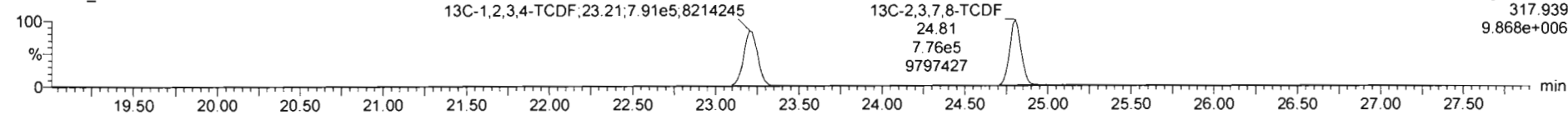
13C-2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
315.9419
7.682e+006

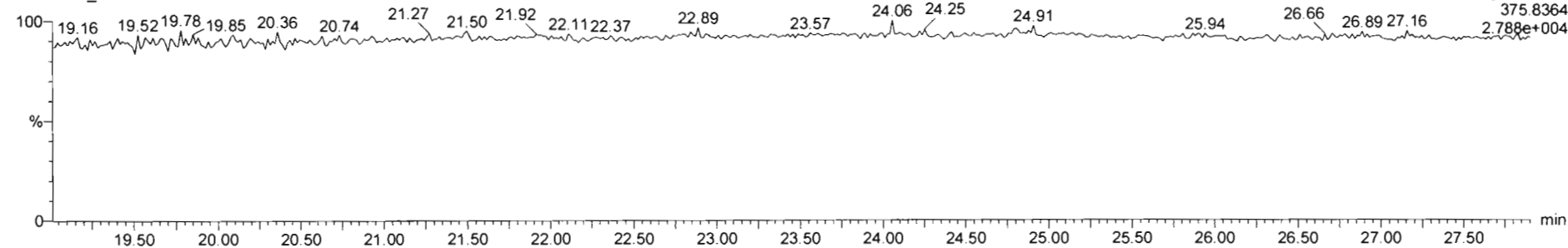
200306R2_3



F1:Voltage SIR,EI+
317.939
9.868e+006

DPE1

200306R2_3



F1:Voltage SIR,EI+
375.8364
2.788e+004

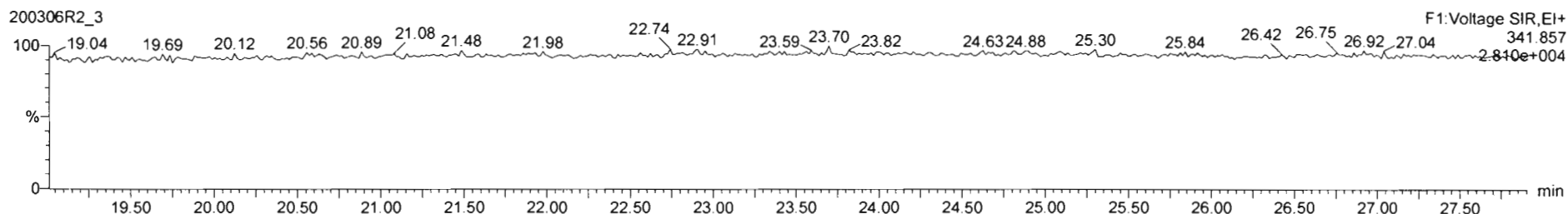
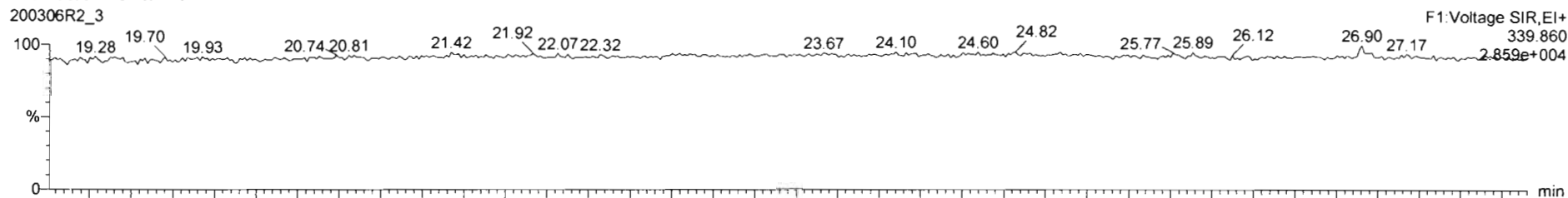
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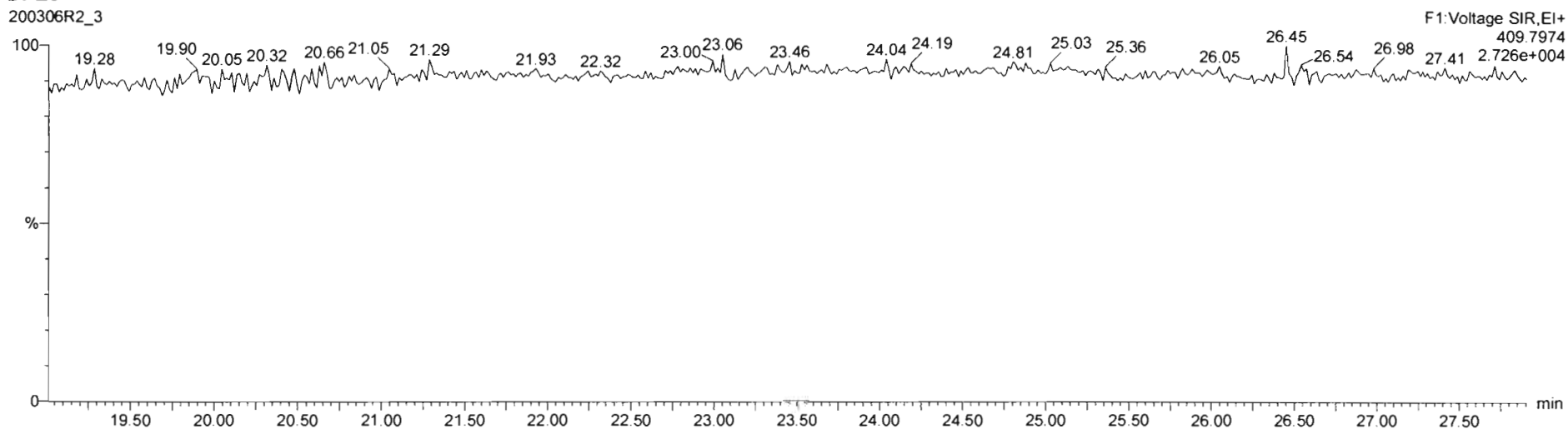
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



DPE6



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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

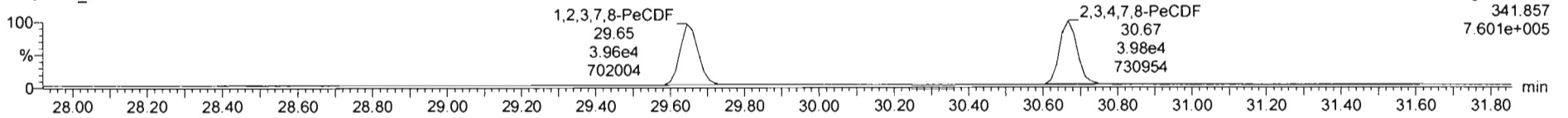
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1,2,3,7,8-PeCDF

200306R2_3

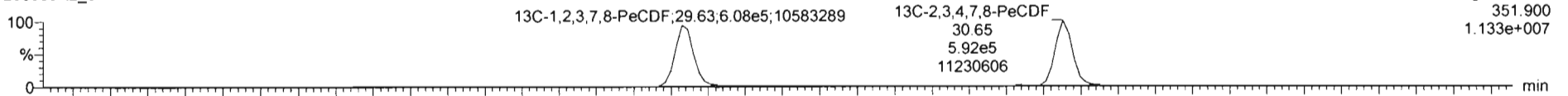


200306R2_3

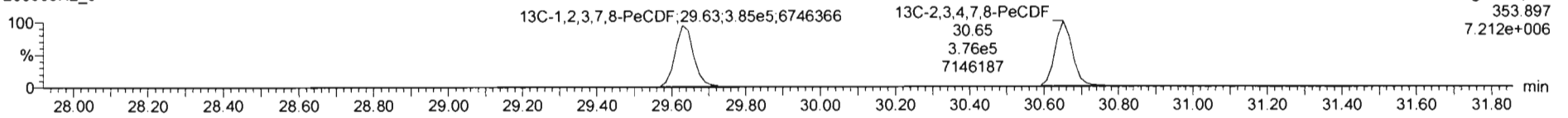


13C-1,2,3,7,8-PeCDF

200306R2_3

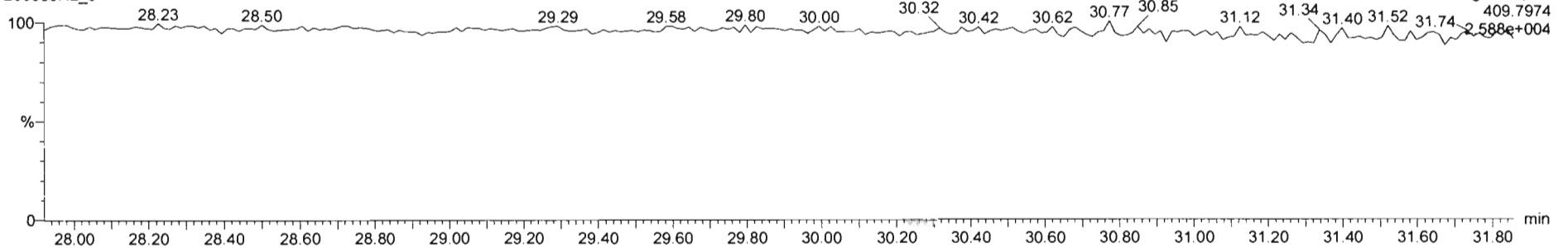


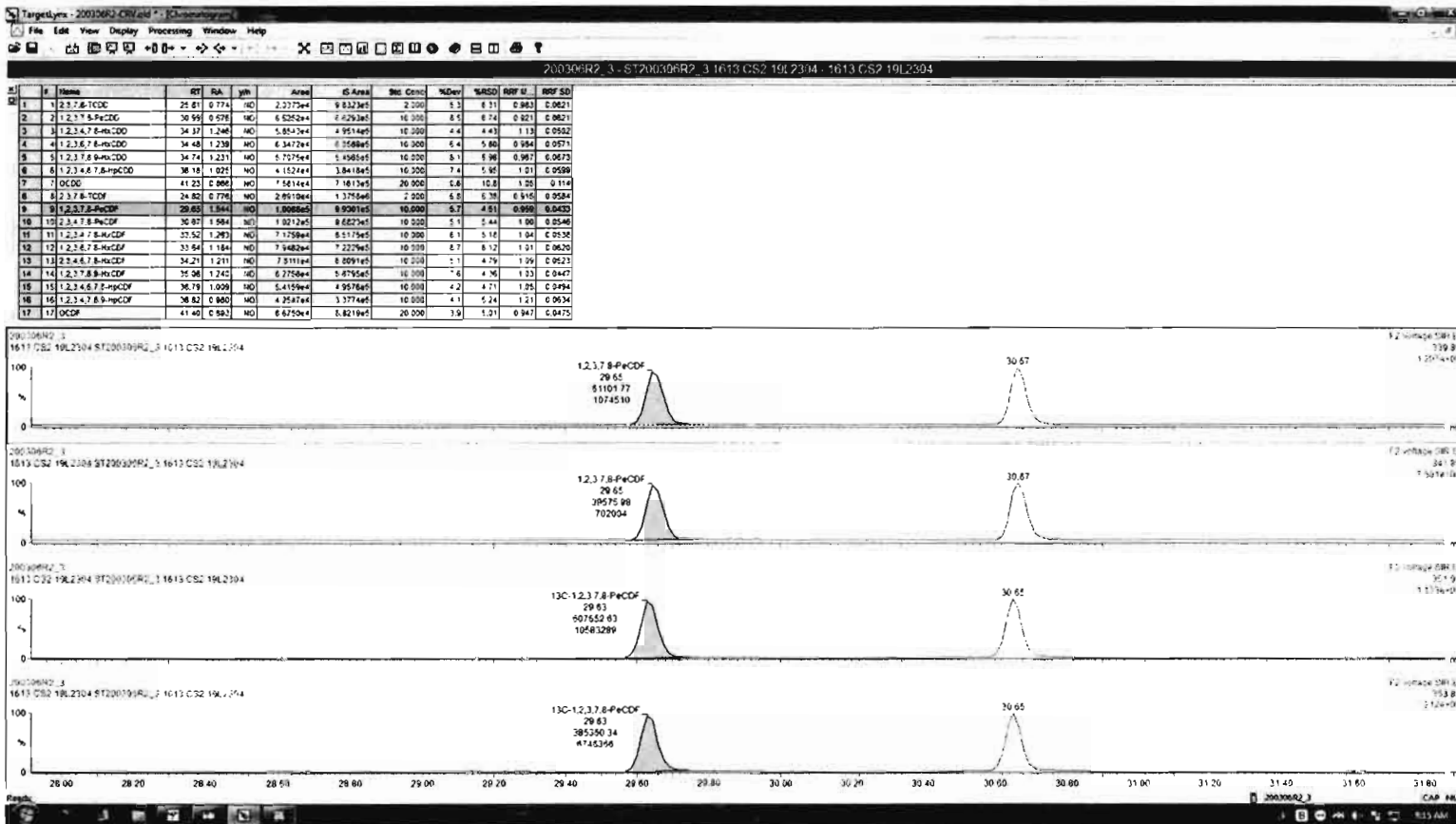
200306R2_3



DPE2

200306R2_3





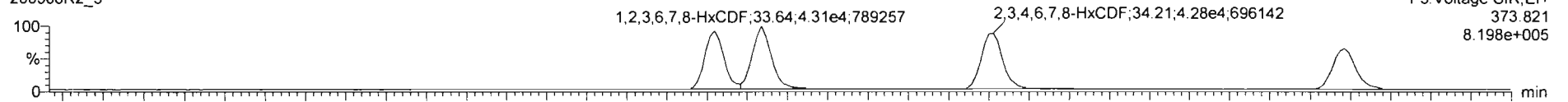
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

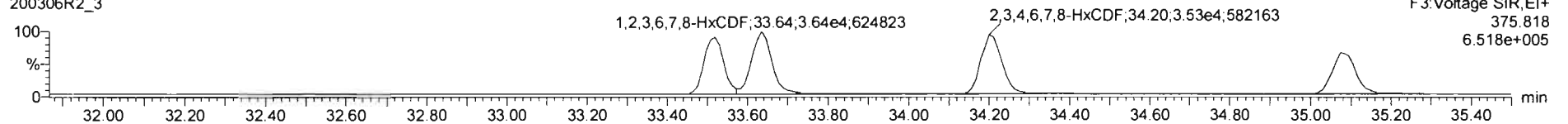
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1,2,3,4,7,8-HxCDF

200306R2_3

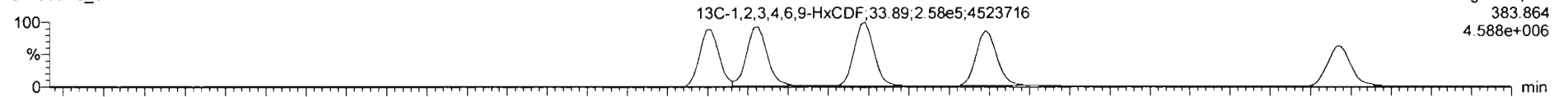


200306R2_3

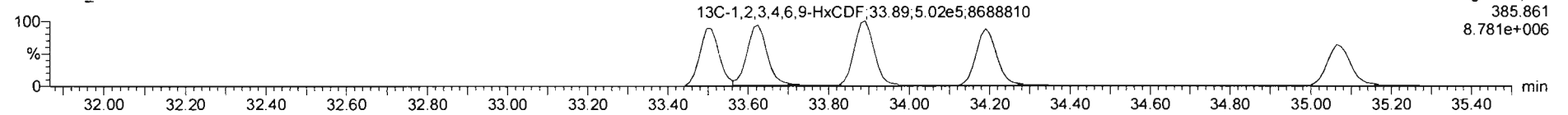


13C-1,2,3,4,7,8-HxCDF

200306R2_3

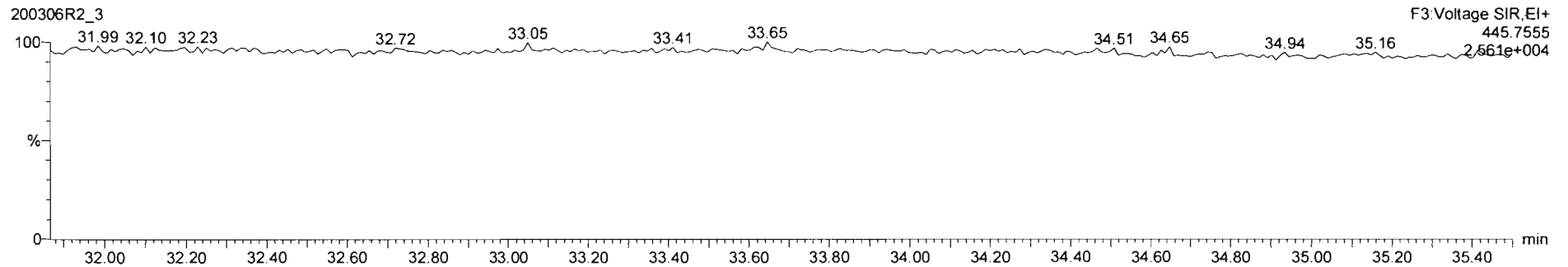


200306R2_3



DPE3

200306R2_3

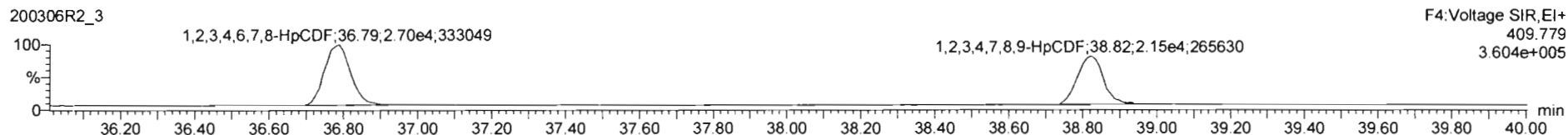
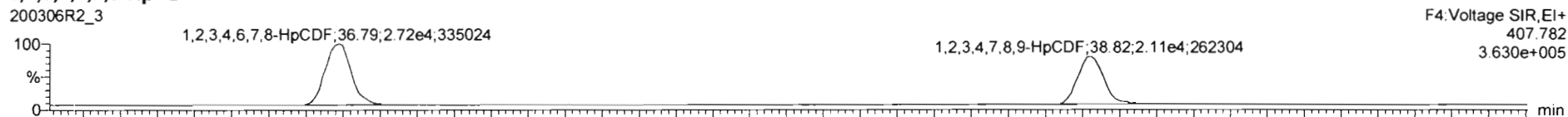


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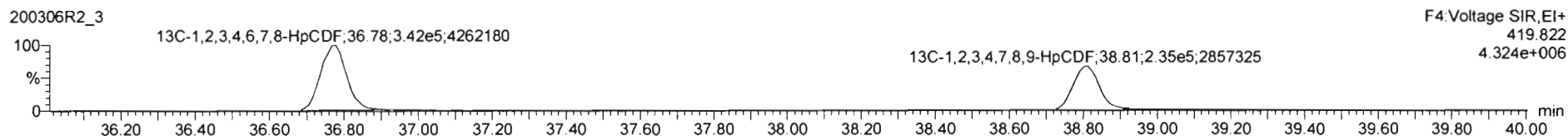
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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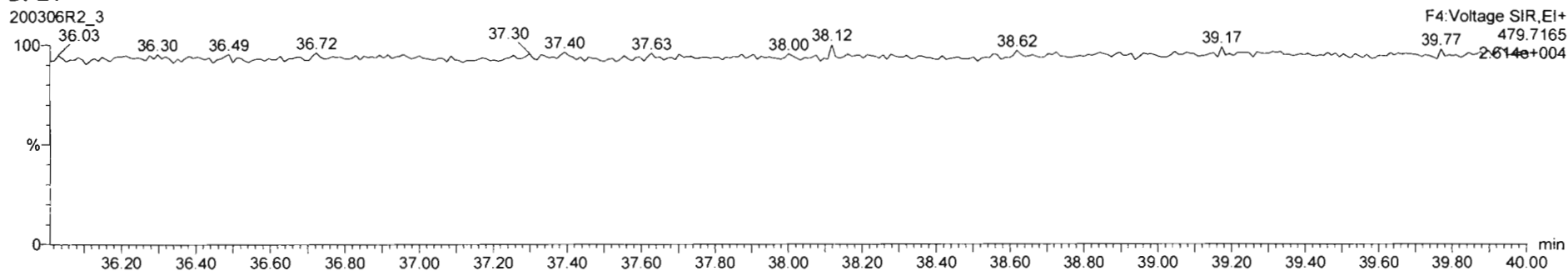
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



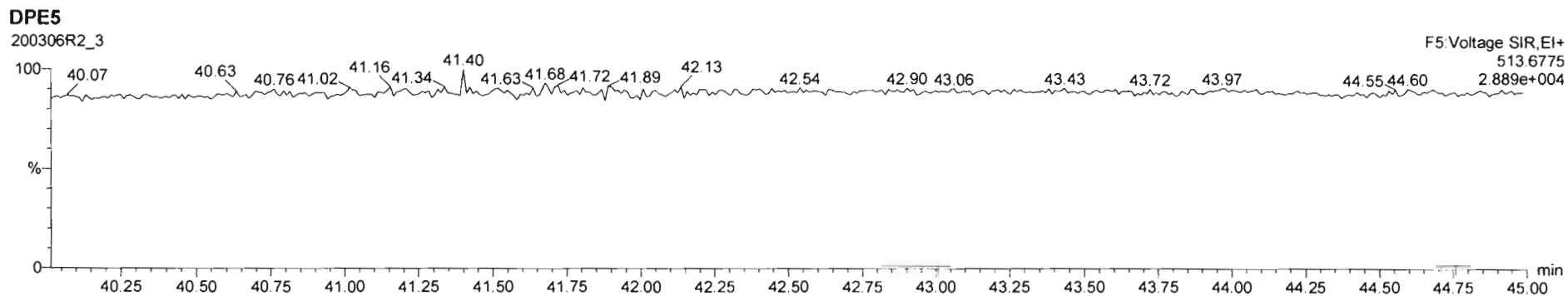
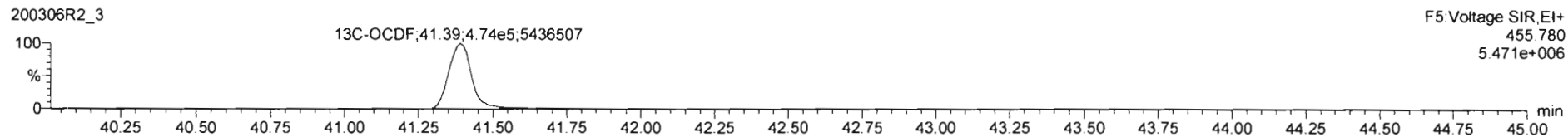
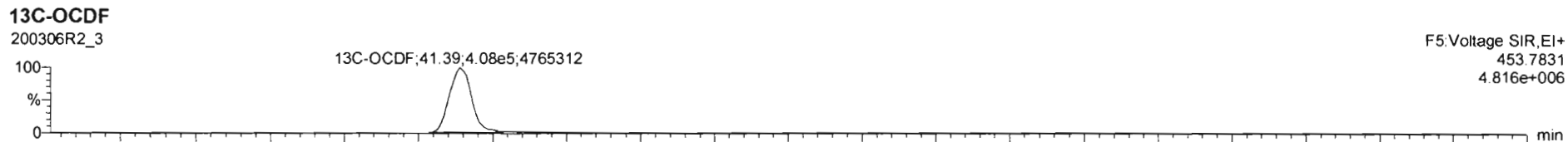
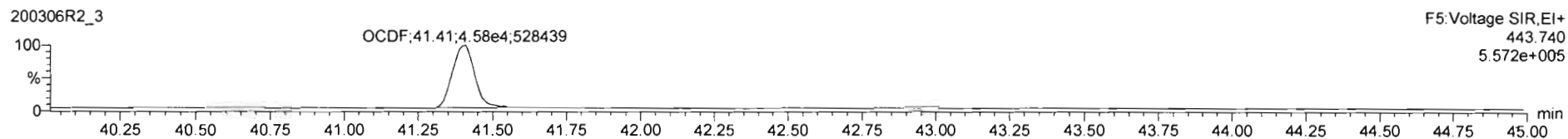
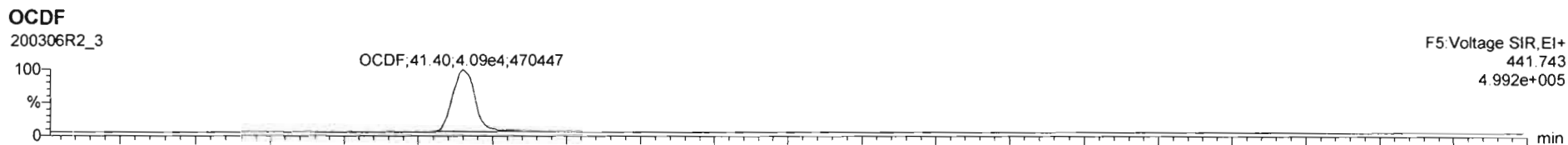
DPE4



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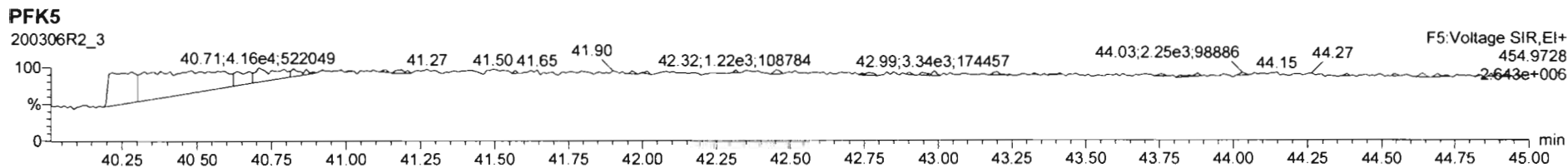
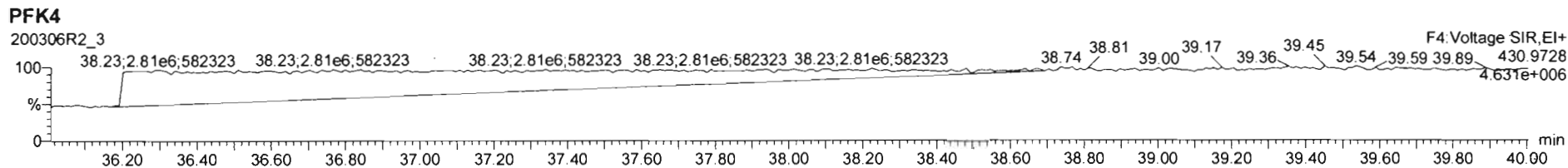
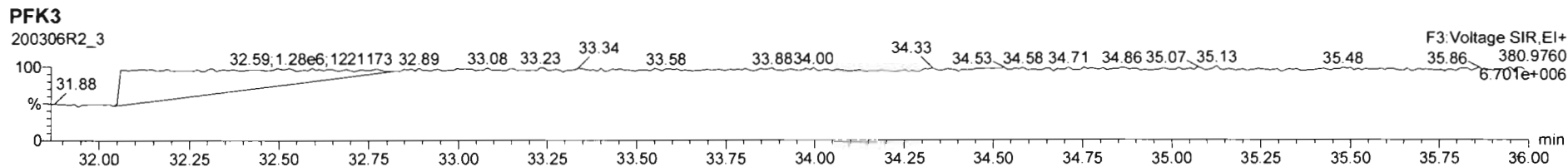
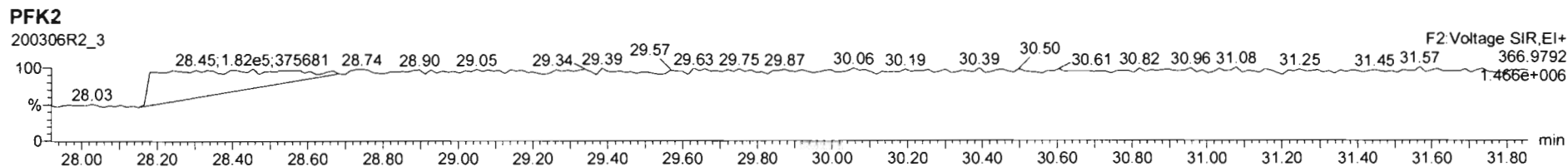
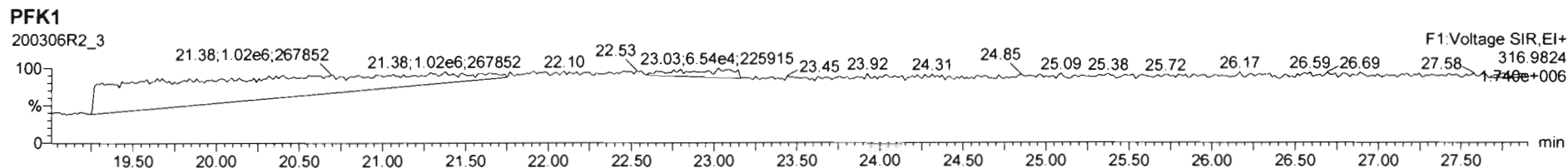


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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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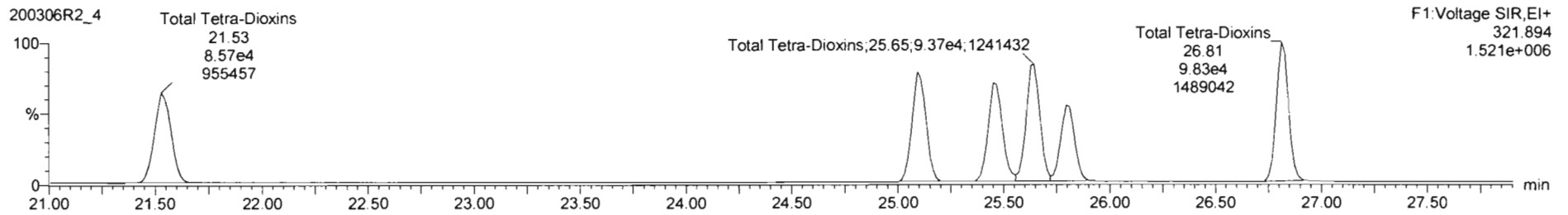
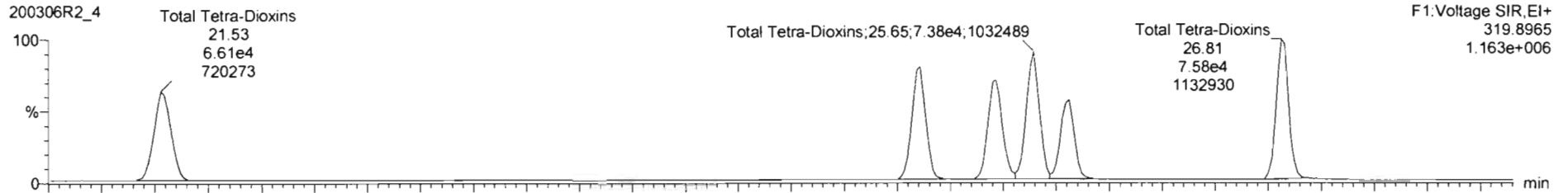


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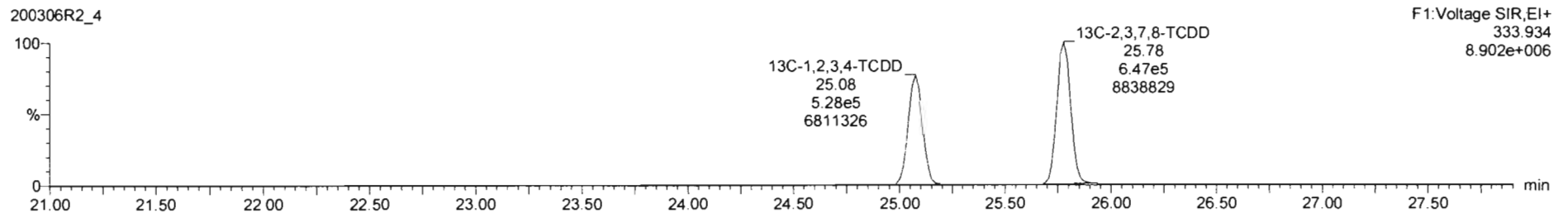
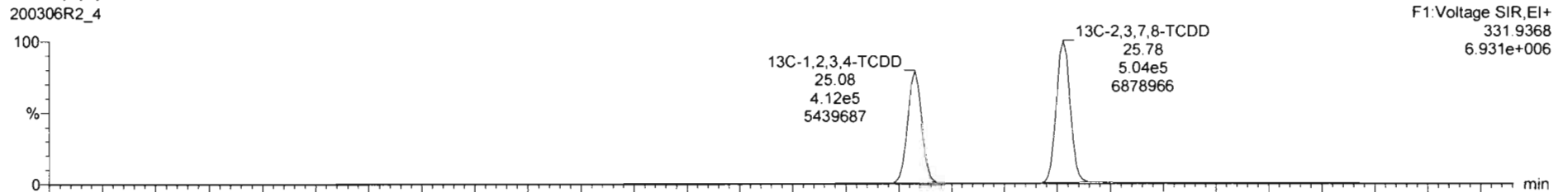
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



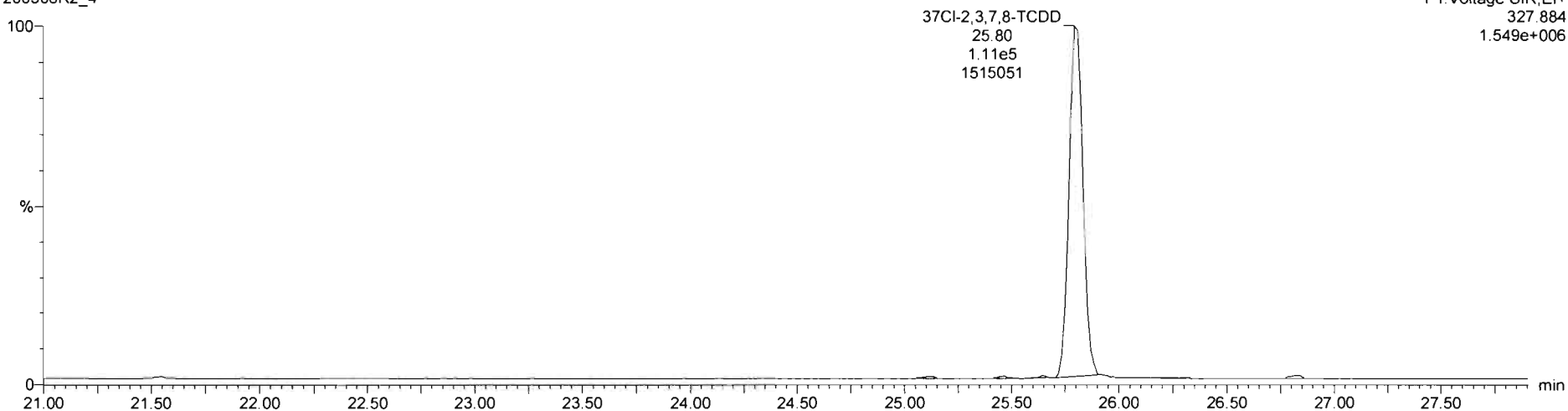
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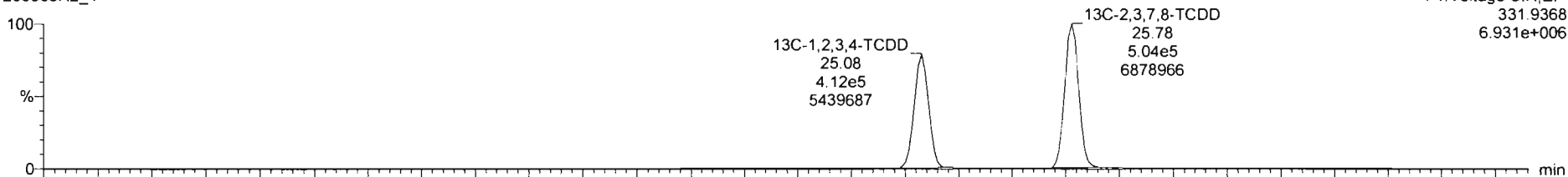
37Cl-2,3,7,8-TCDD

200306R2_4

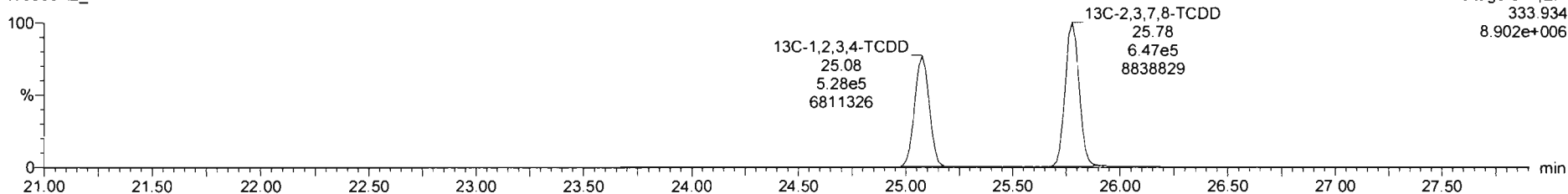


13C-1,2,3,4-TCDD

200306R2_4



200306R2_4



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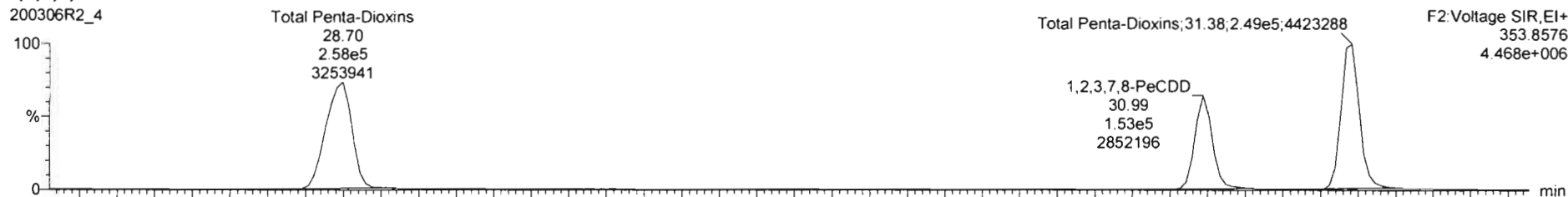
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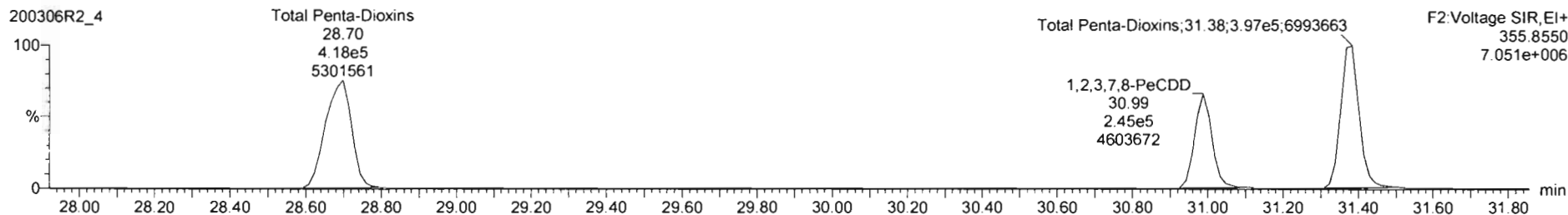
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1,2,3,7,8-PeCDD

200306R2_4

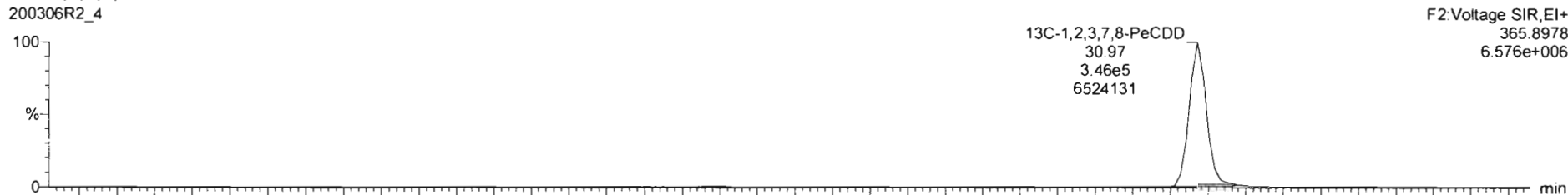


200306R2_4

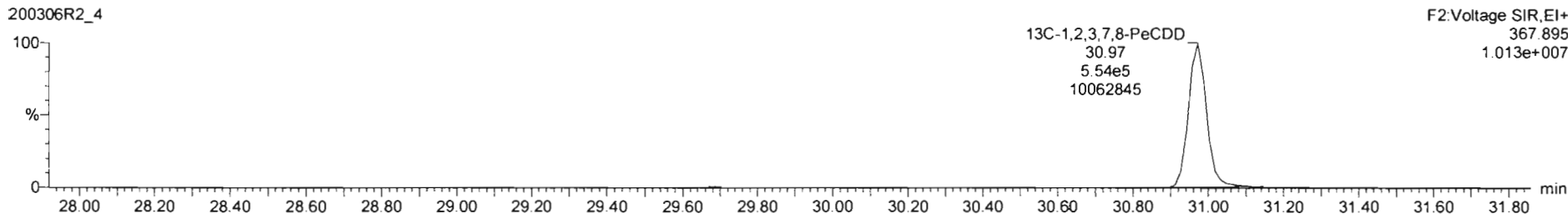


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



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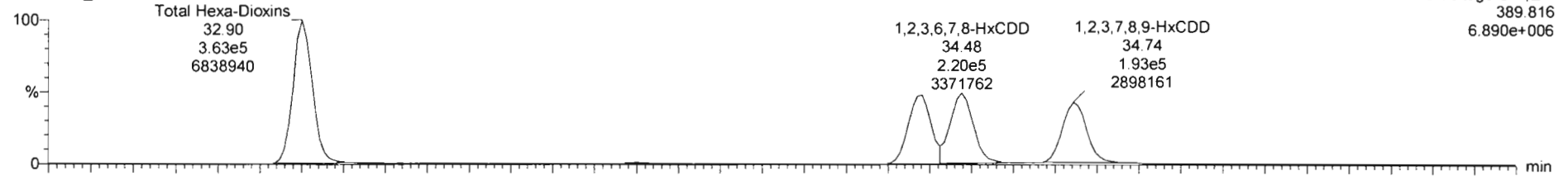
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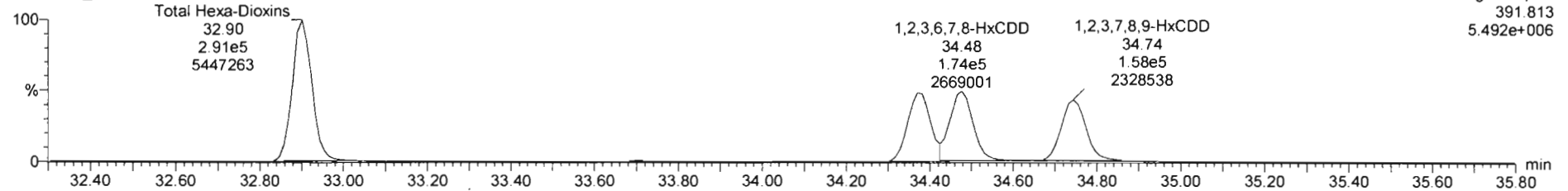
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1,2,3,4,7,8-HxCDD

200306R2_4

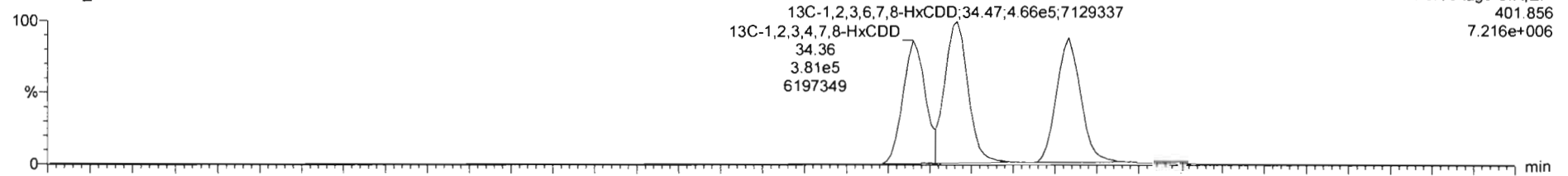


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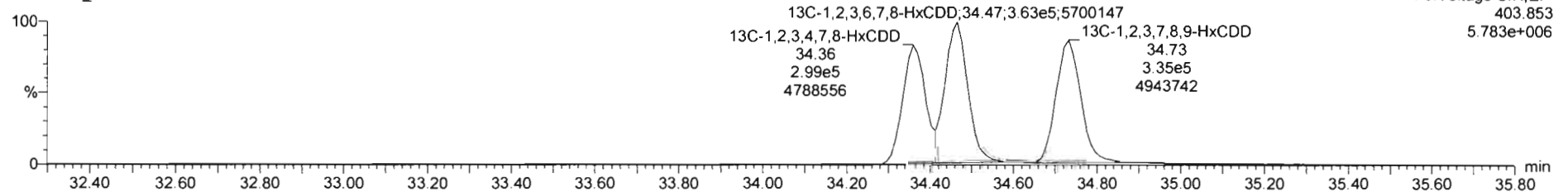


13C-1,2,3,4,7,8-HxCDD

200306R2_4



200306R2_4



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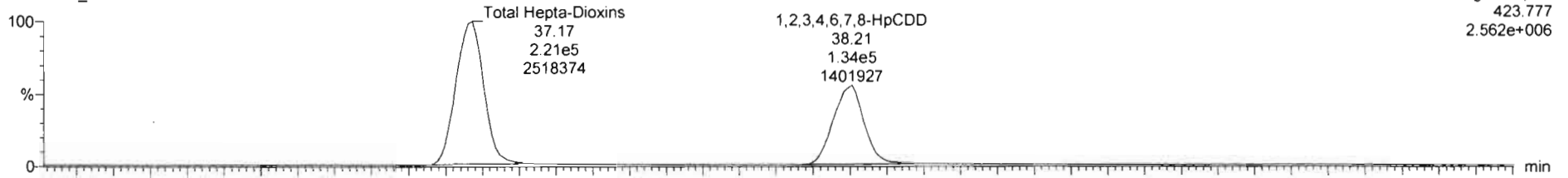
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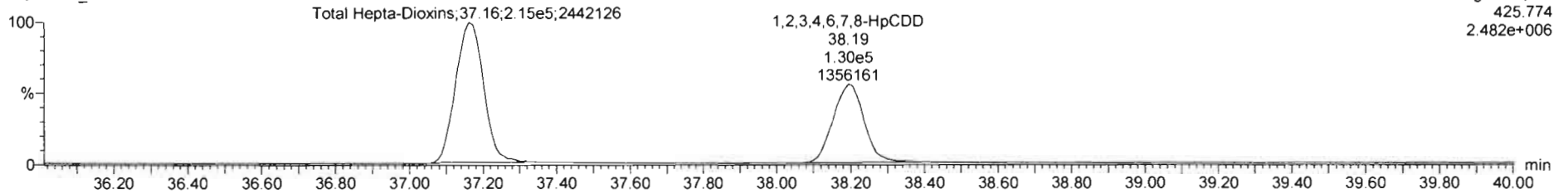
1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
423.777
2.562e+006

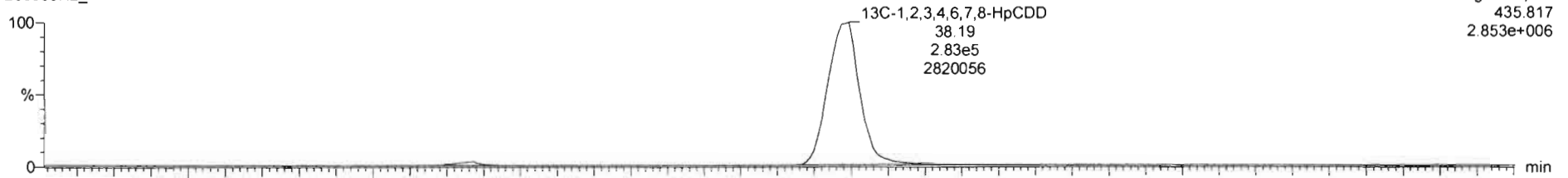
200306R2_4



F4: Voltage SIR, EI+
425.774
2.482e+006

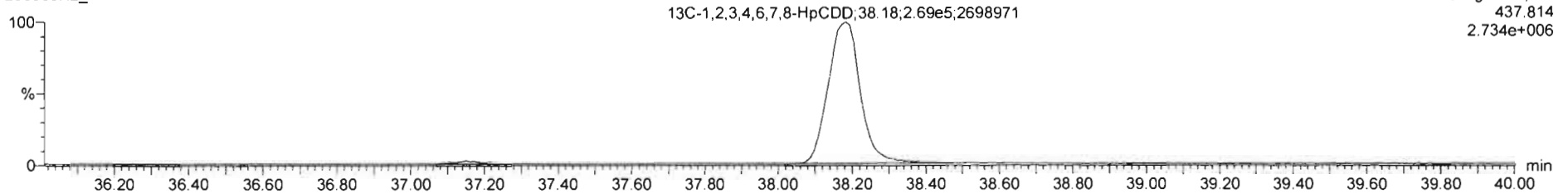
13C-1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
435.817
2.853e+006

200306R2_4

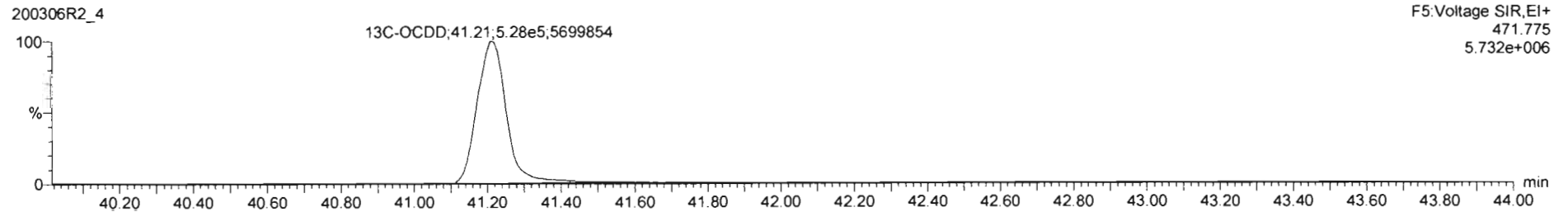
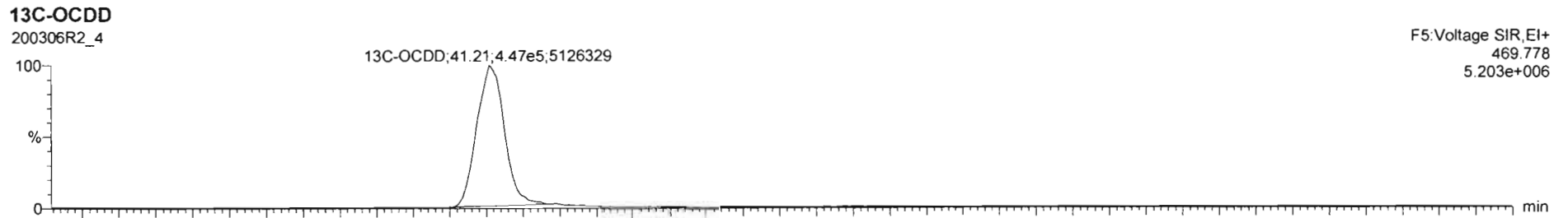
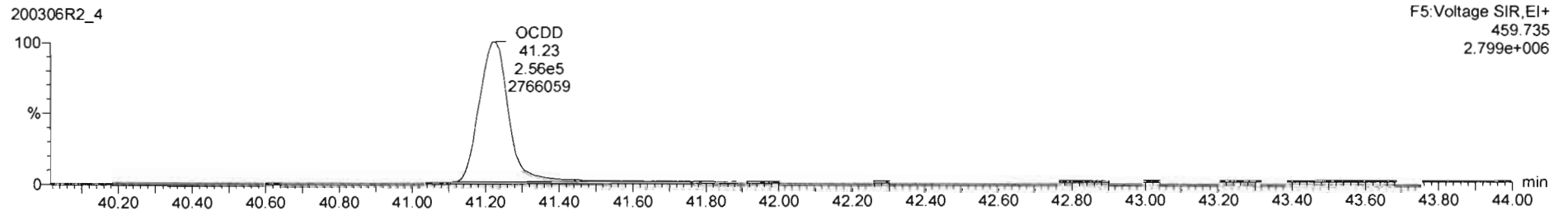
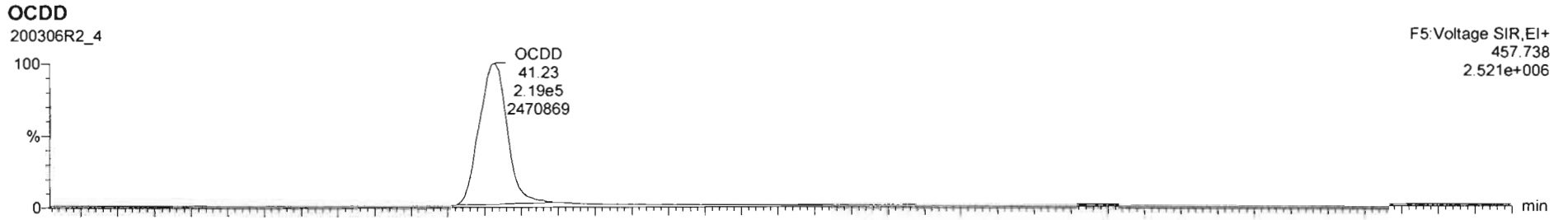


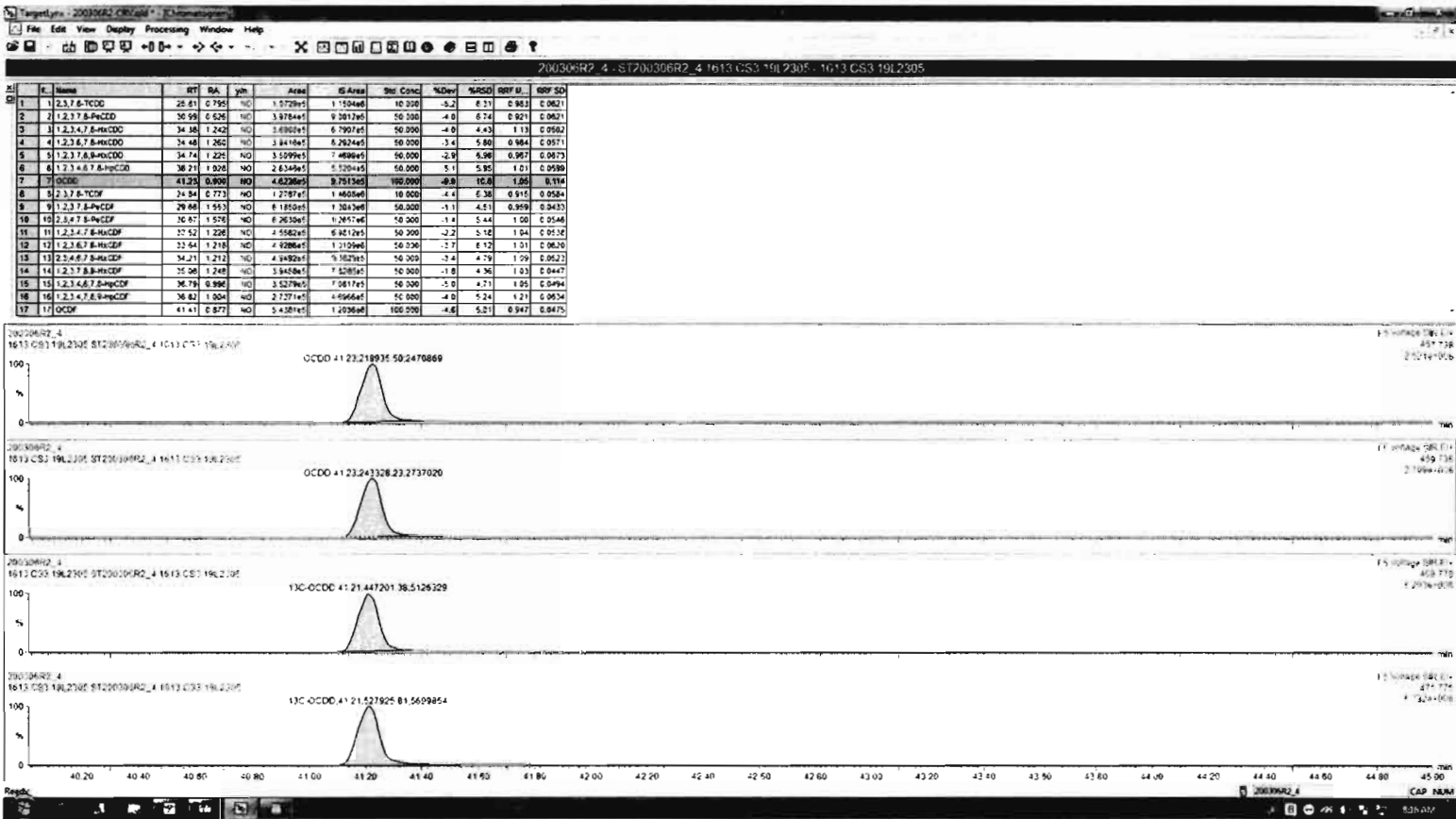
F4: Voltage SIR, EI+
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2.734e+006

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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Dataset: Untitled

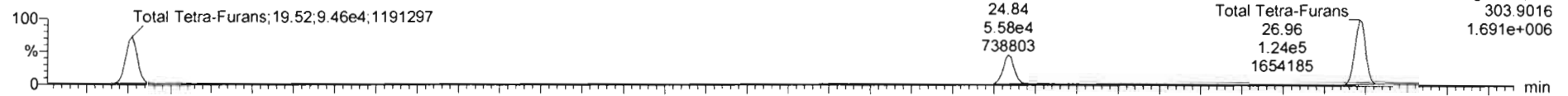
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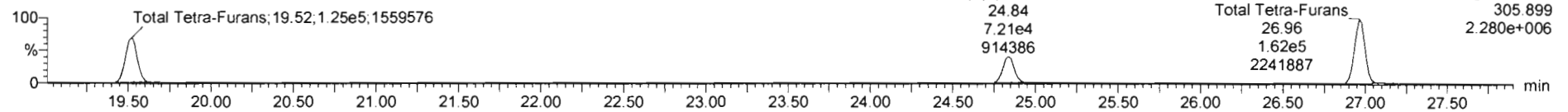
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2,3,7,8-TCDF

200306R2_4

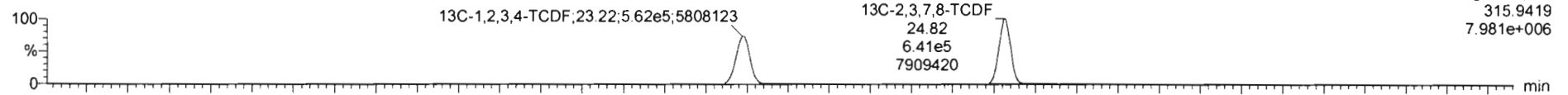


200306R2_4

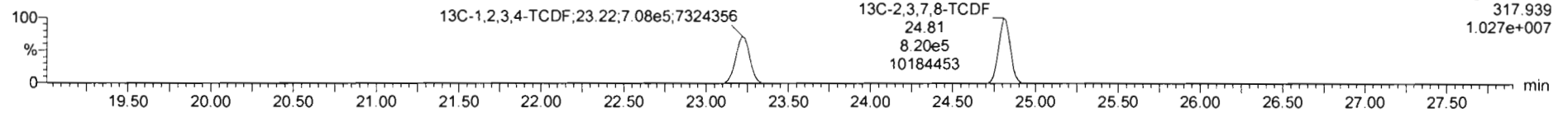


13C-2,3,7,8-TCDF

200306R2_4

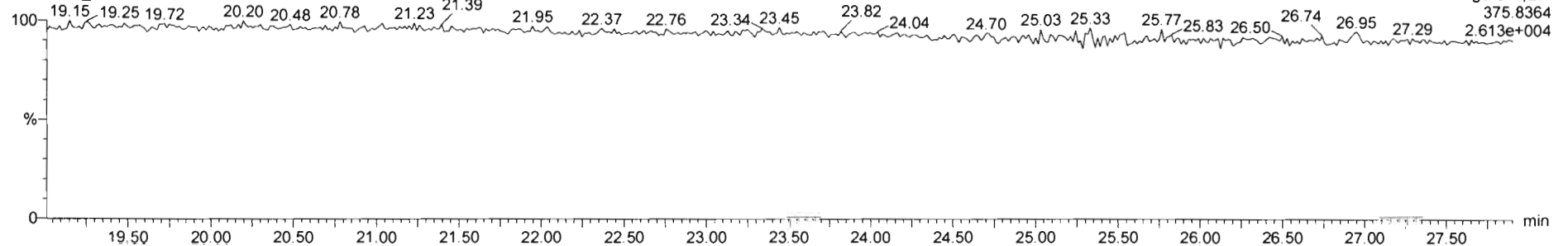


200306R2_4



DPE1

200306R2_4



Dataset: Untitled

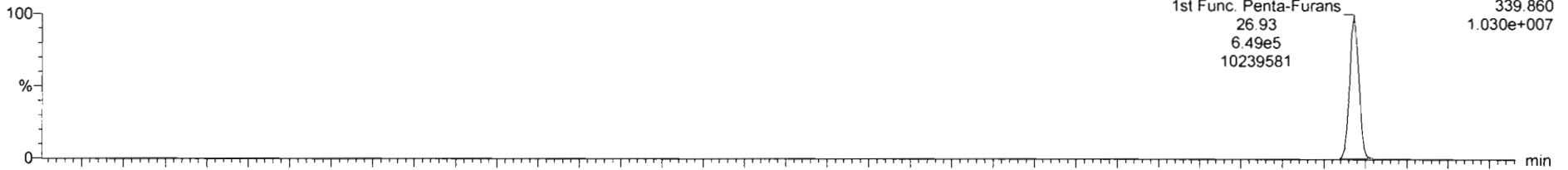
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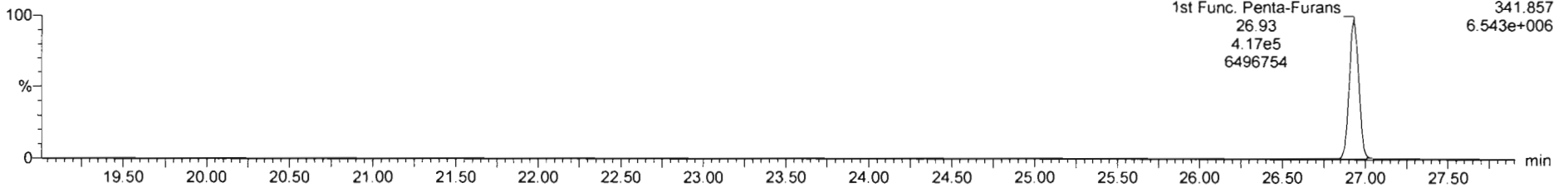
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1st Func. Penta-Furans

200306R2_4

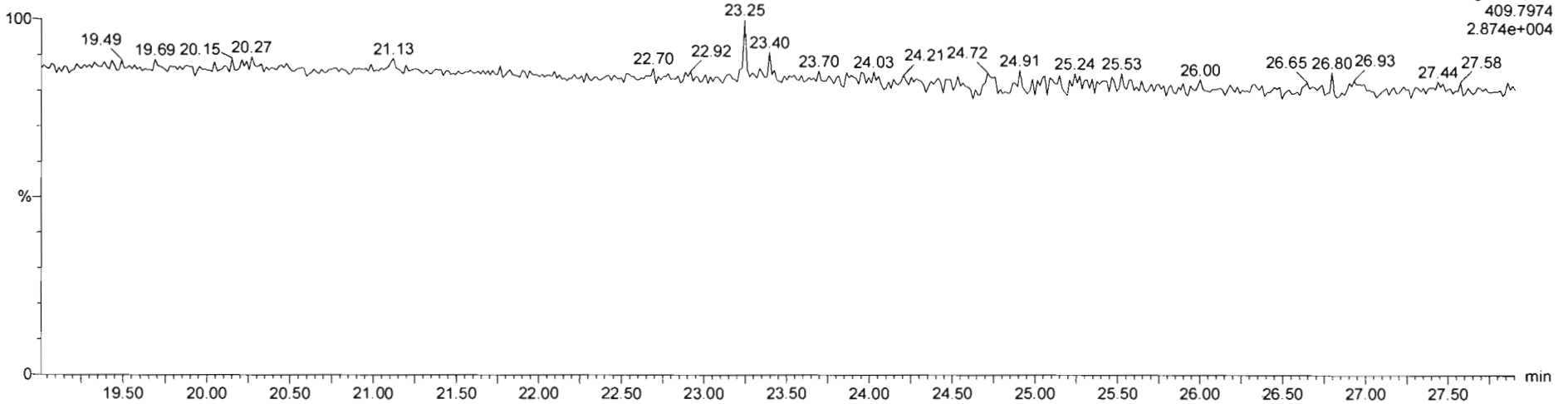


200306R2_4



DPE6

200306R2_4



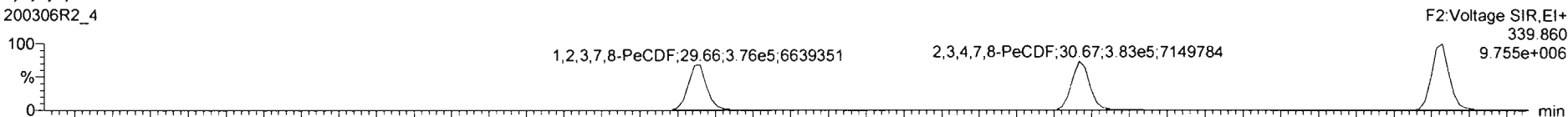
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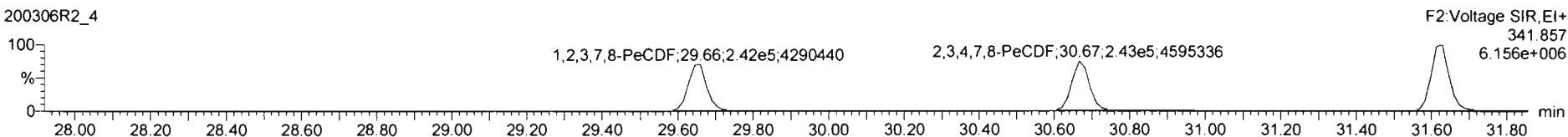
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1,2,3,7,8-PeCDF

200306R2_4

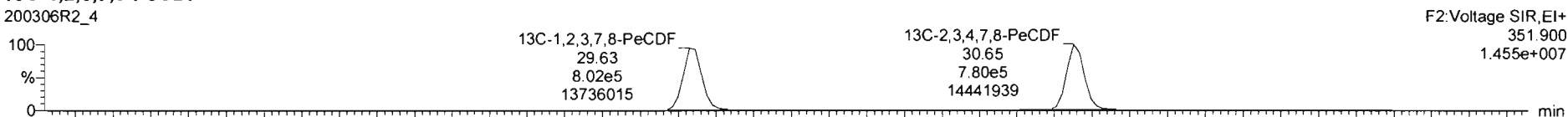


200306R2_4

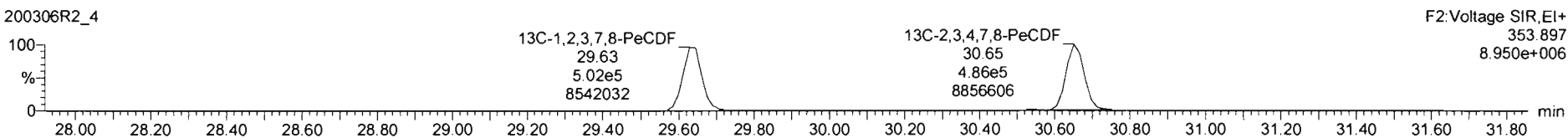


13C-1,2,3,7,8-PeCDF

200306R2_4

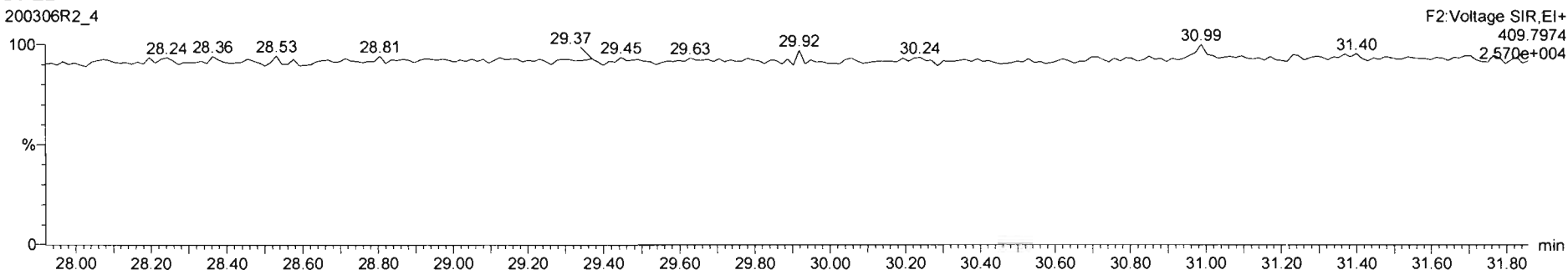


200306R2_4



DPE2

200306R2_4



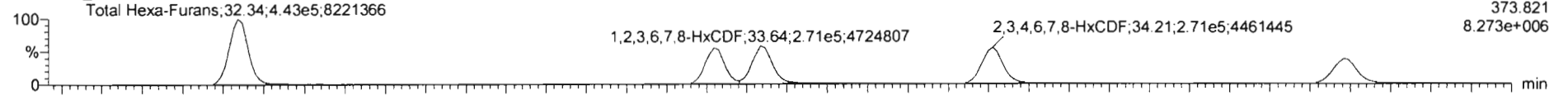
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

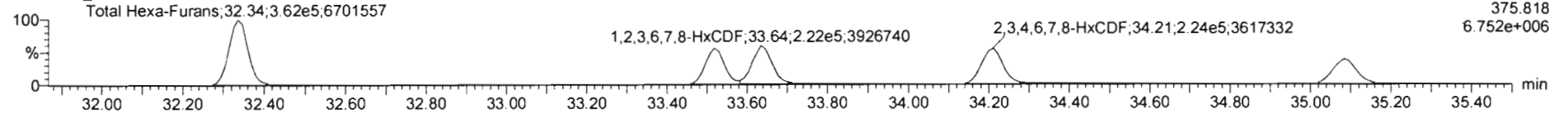
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1,2,3,4,7,8-HxCDF

200306R2_4

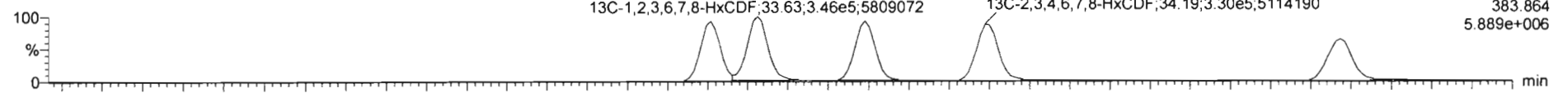


200306R2_4

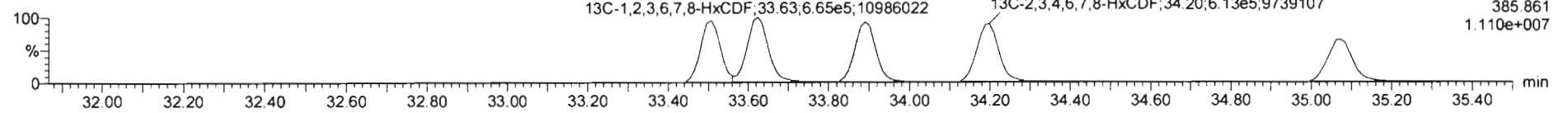


13C-1,2,3,4,7,8-HxCDF

200306R2_4

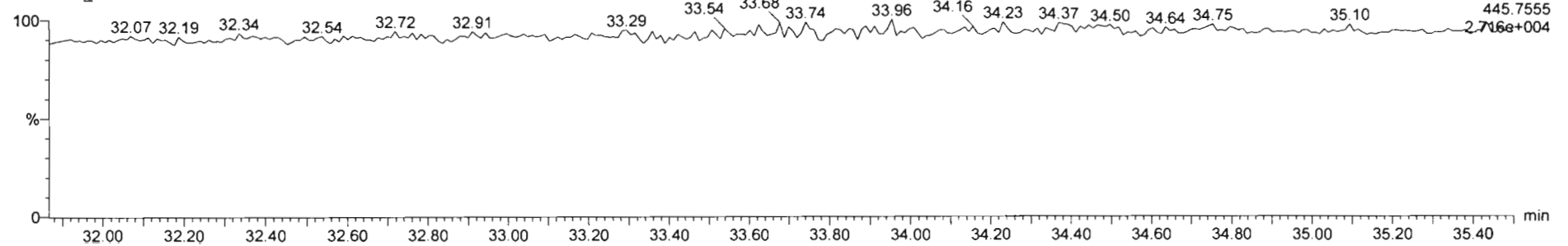


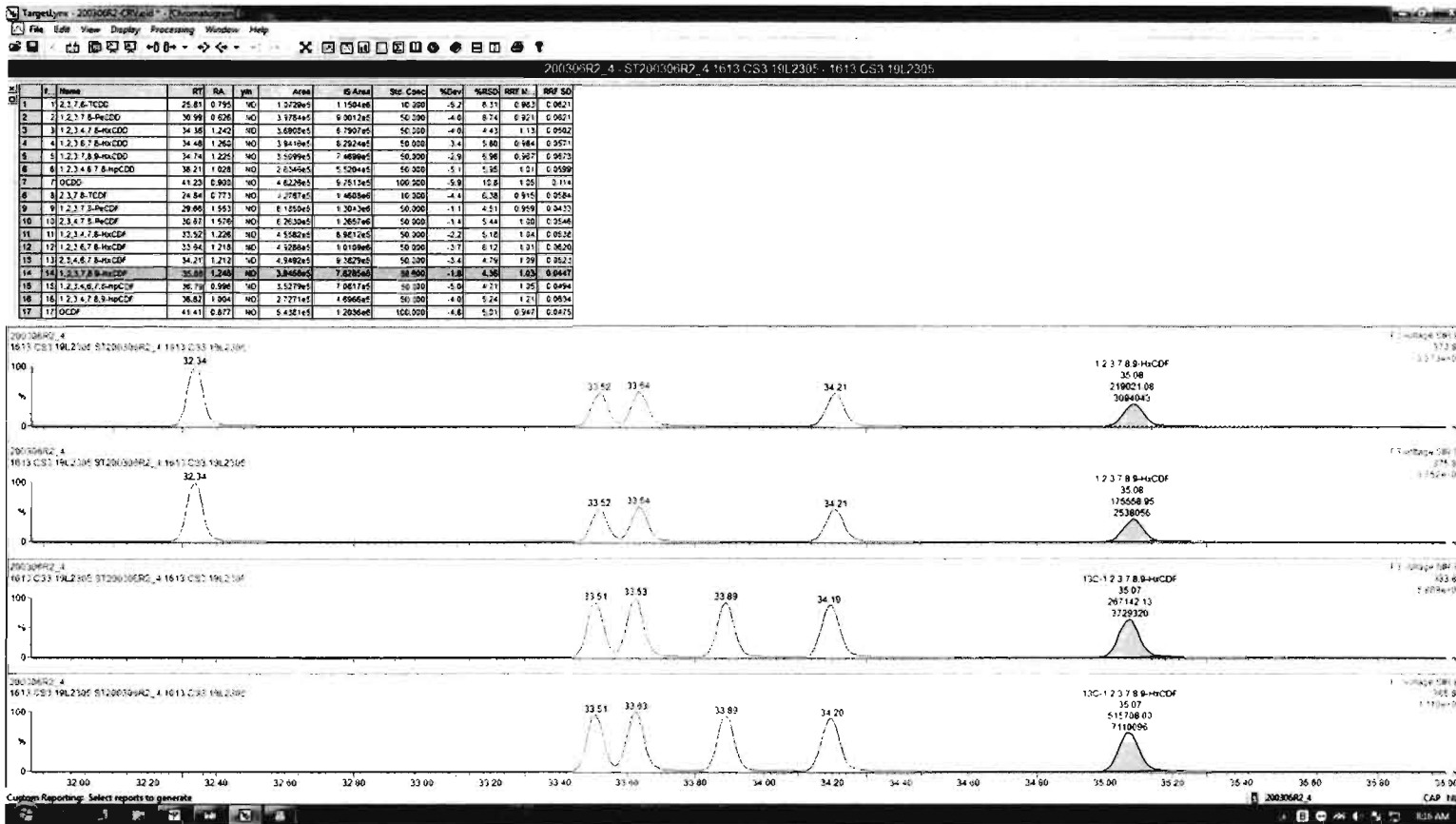
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DPE3

200306R2_4





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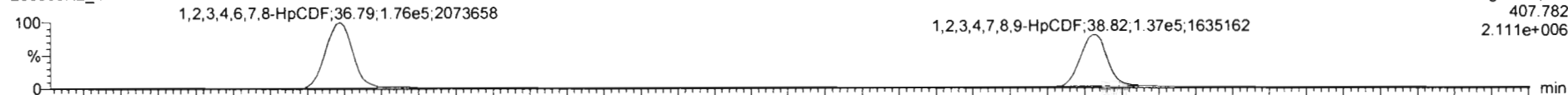
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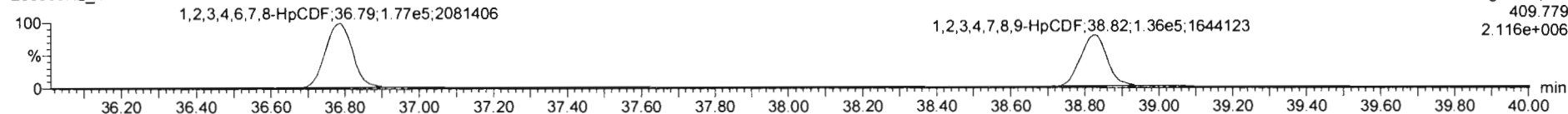
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1,2,3,4,6,7,8-HpCDF

200306R2_4



200306R2_4

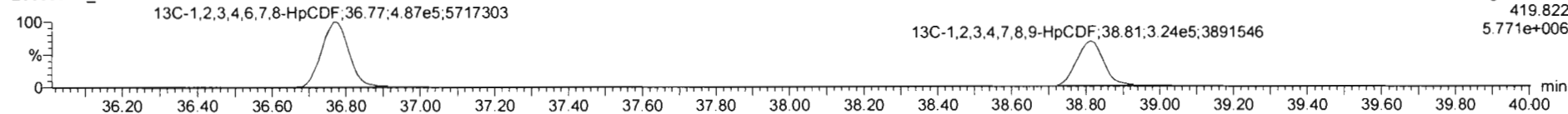


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200306R2_4

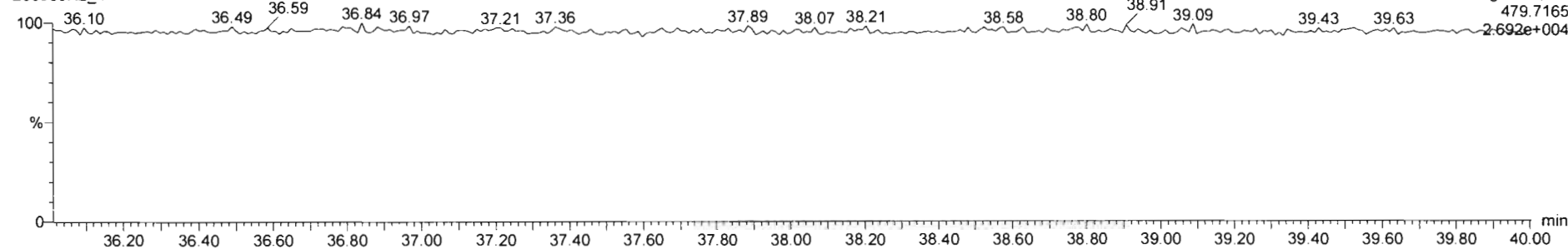


200306R2_4



DPE4

200306R2_4

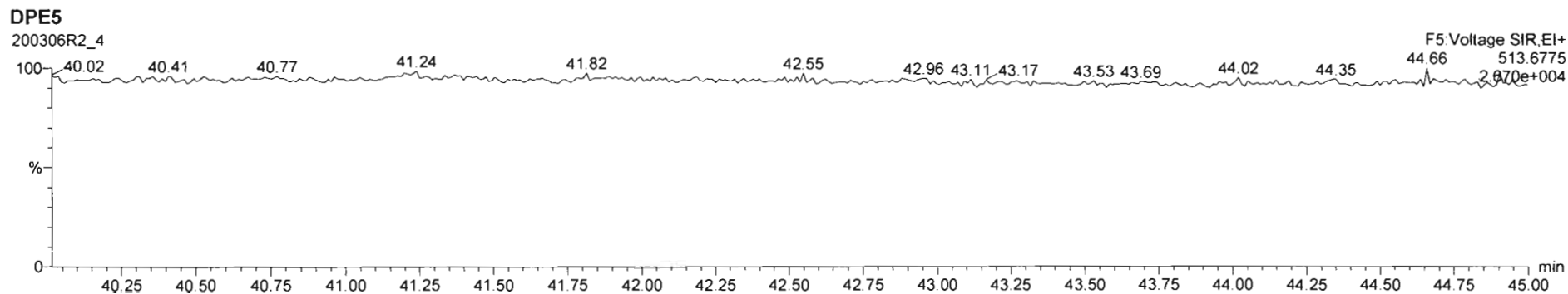
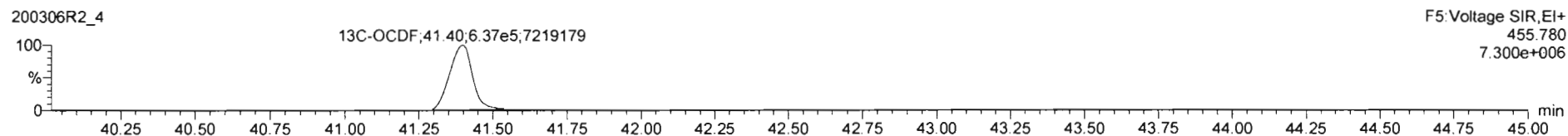
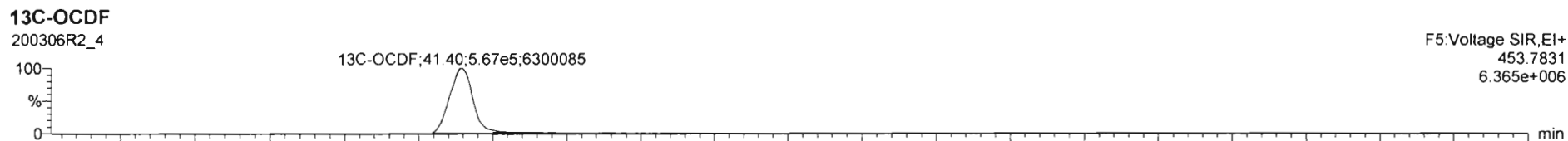
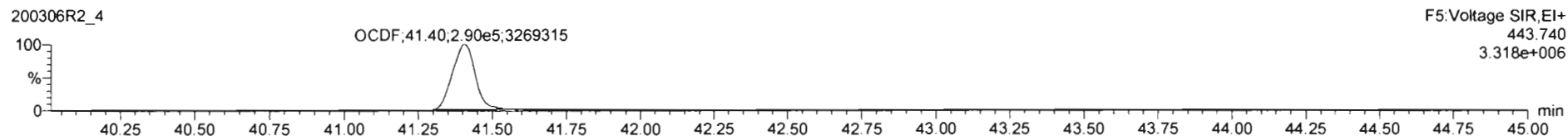
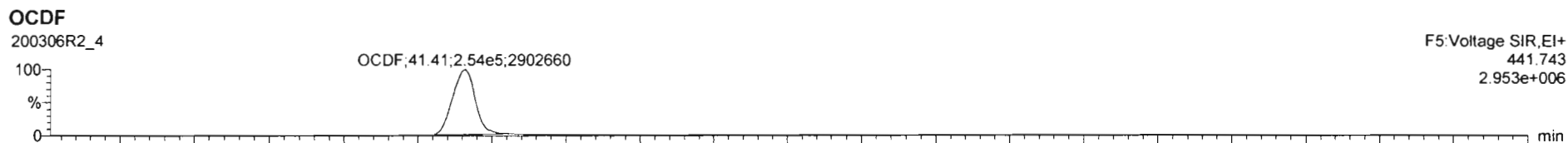


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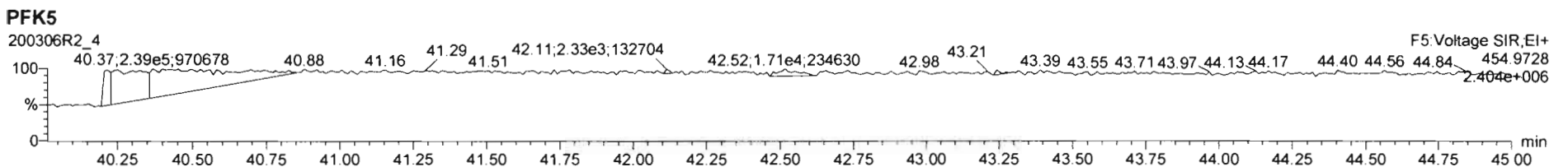
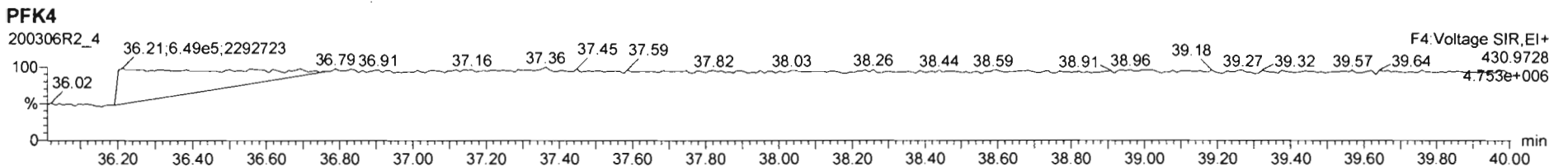
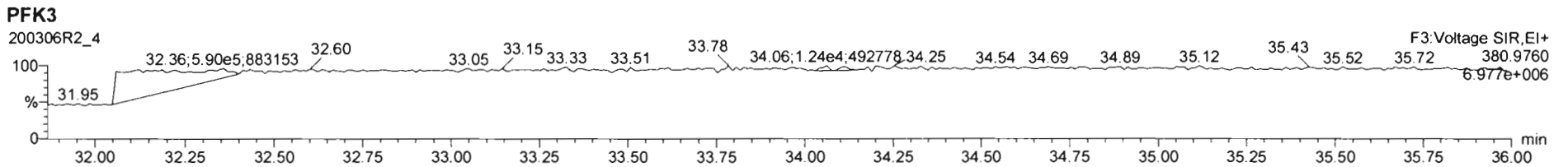
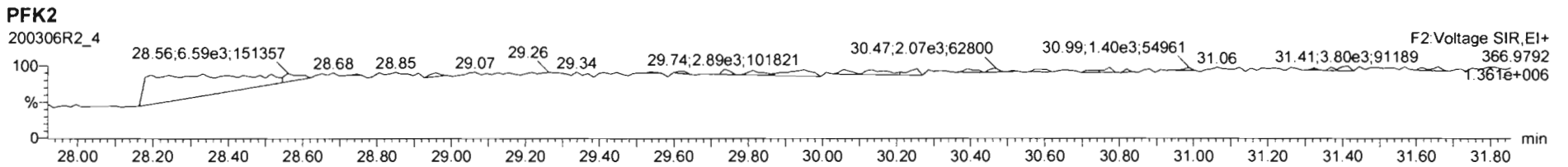
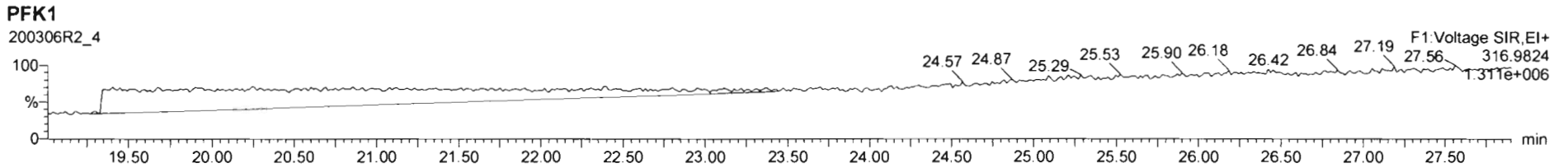
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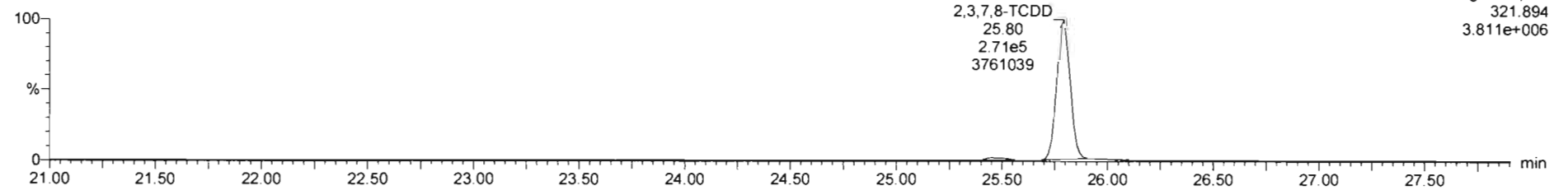
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2,3,7,8-TCDD

200306R2_5

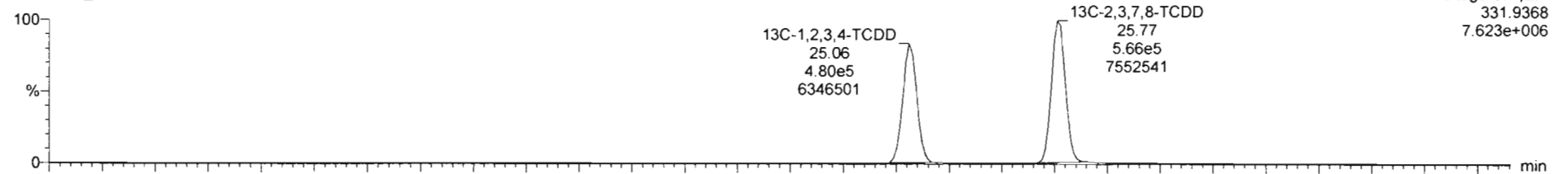


200306R2_5

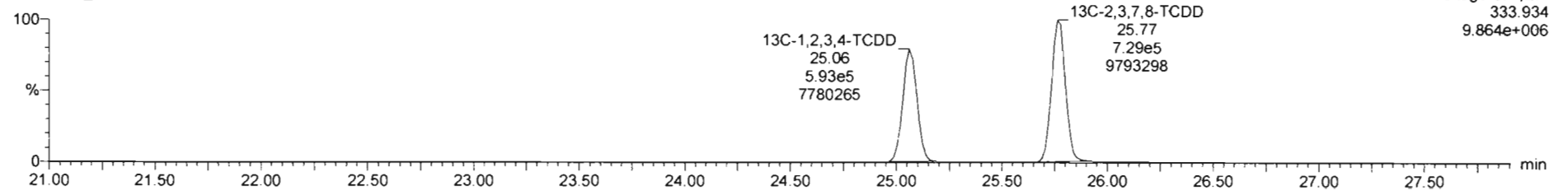


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



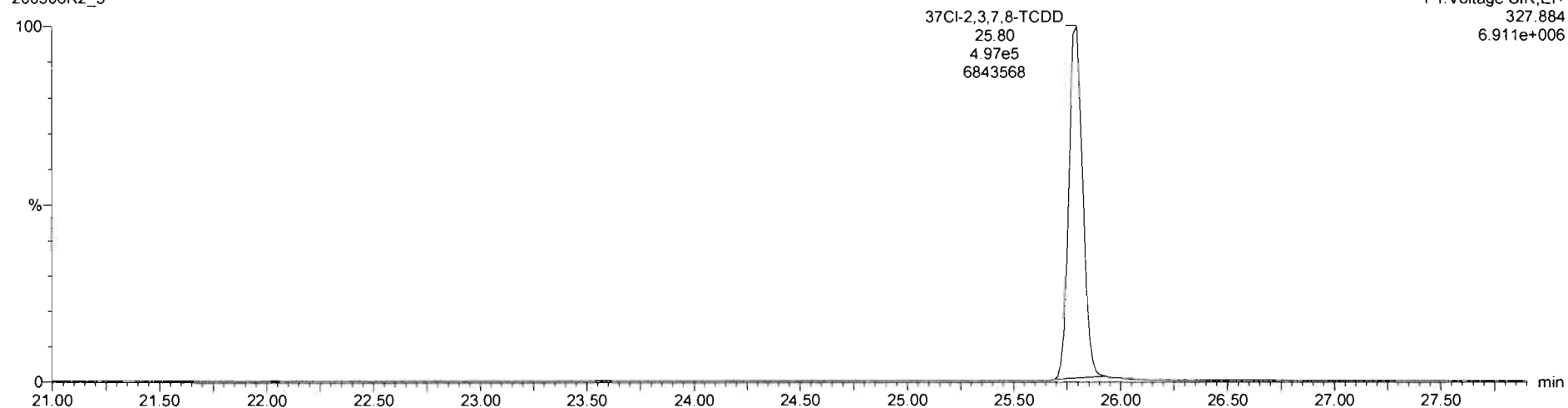
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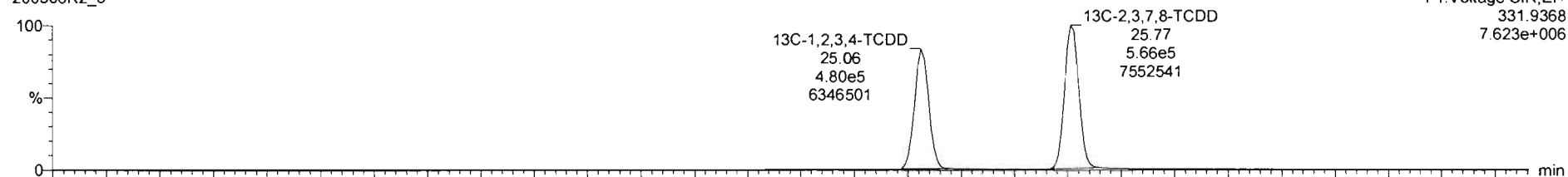
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200306R2_5

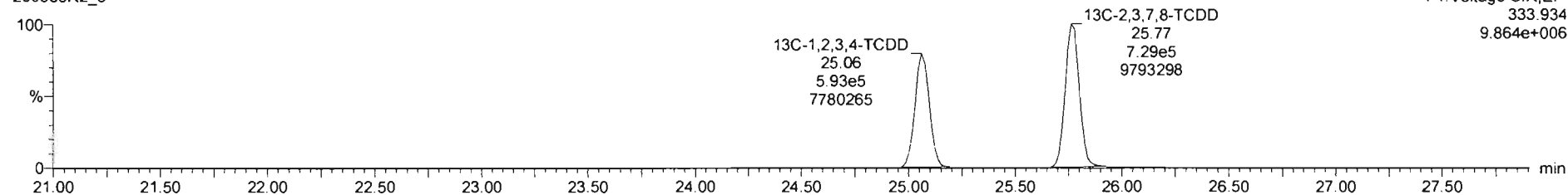


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200306R2_5



200306R2_5



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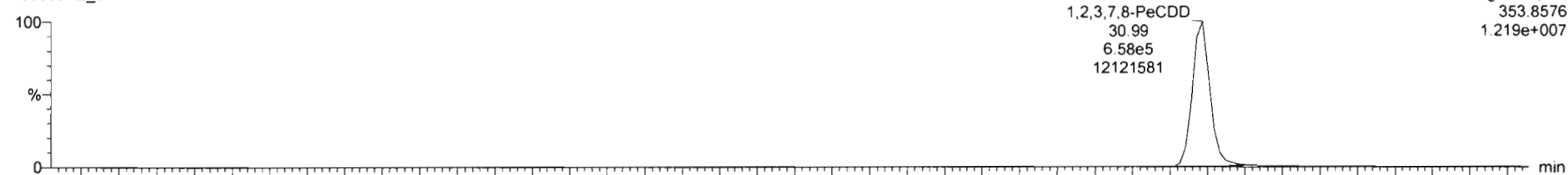
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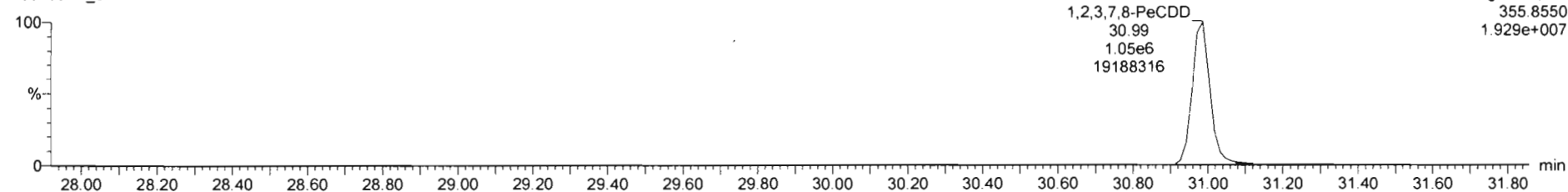
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1,2,3,7,8-PeCDD

200306R2_5

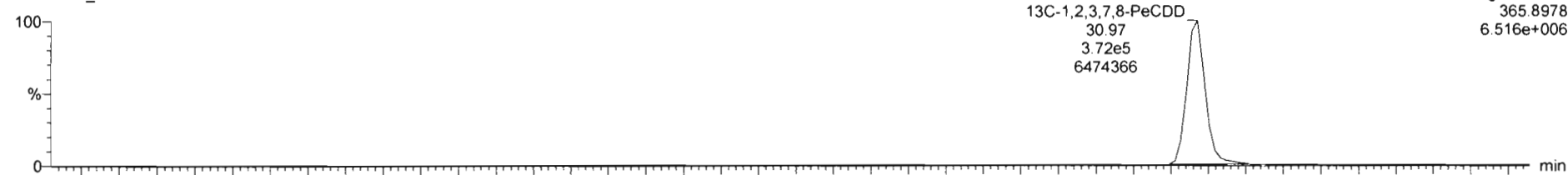


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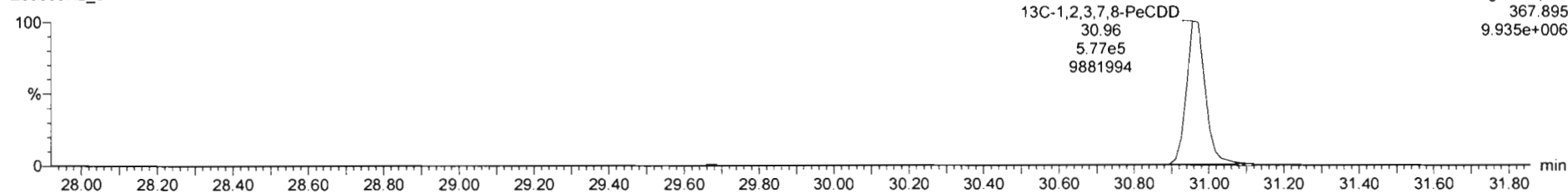


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200306R2_5



200306R2_5



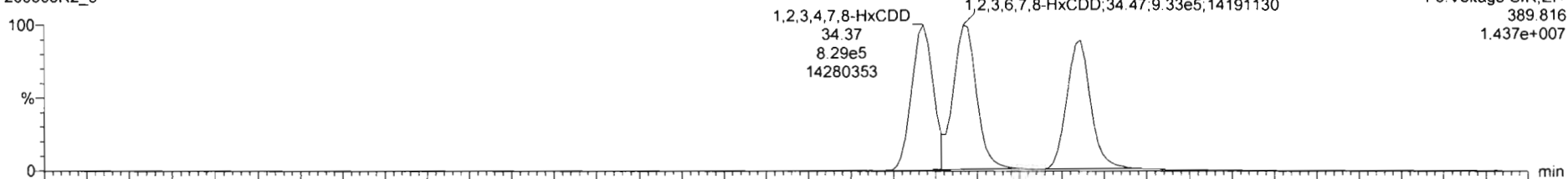
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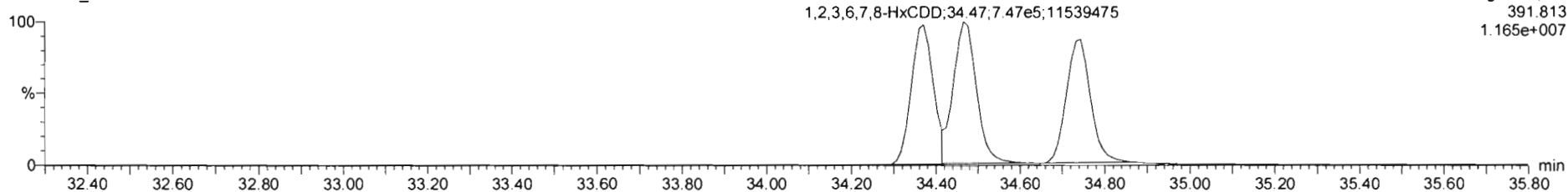
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1,2,3,4,7,8-HxCDD

200306R2_5

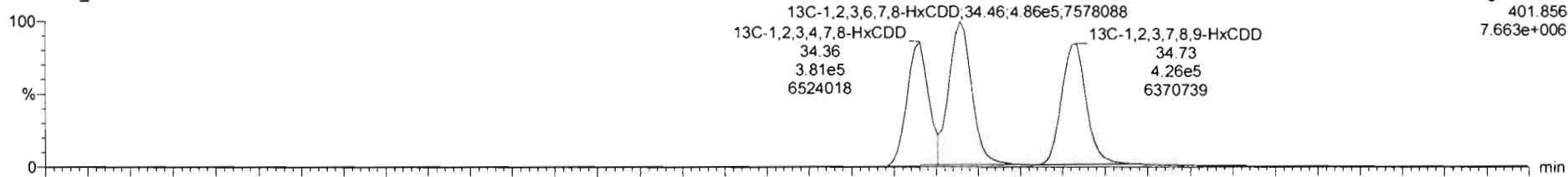


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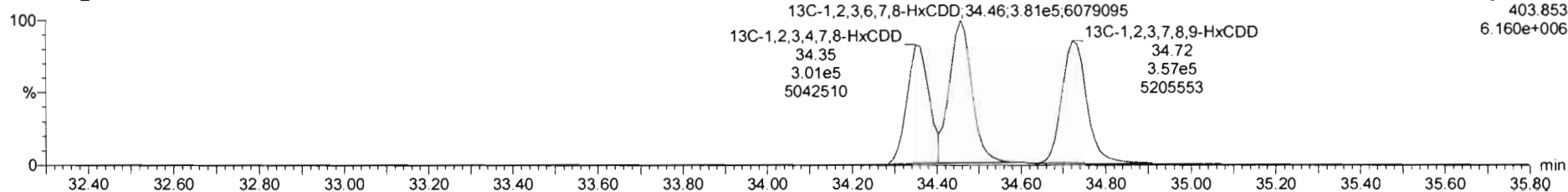


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200306R2_5



200306R2_5



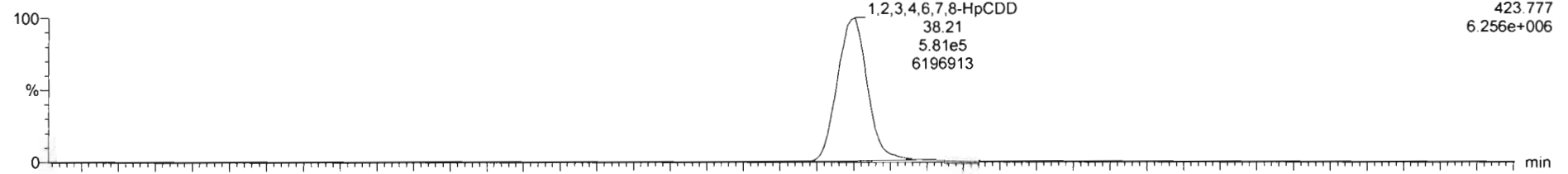
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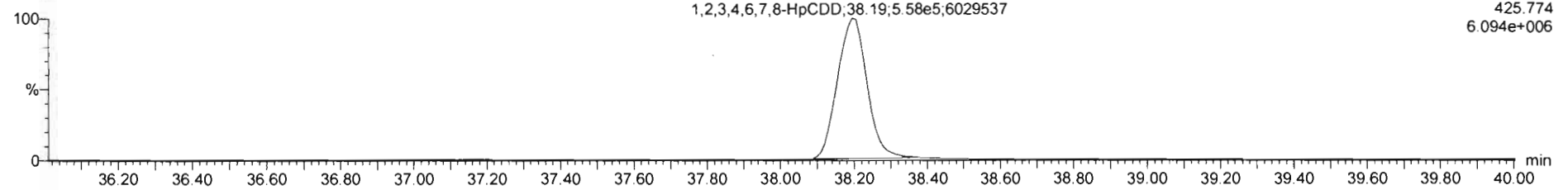
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1,2,3,4,6,7,8-HpCDD

200306R2_5

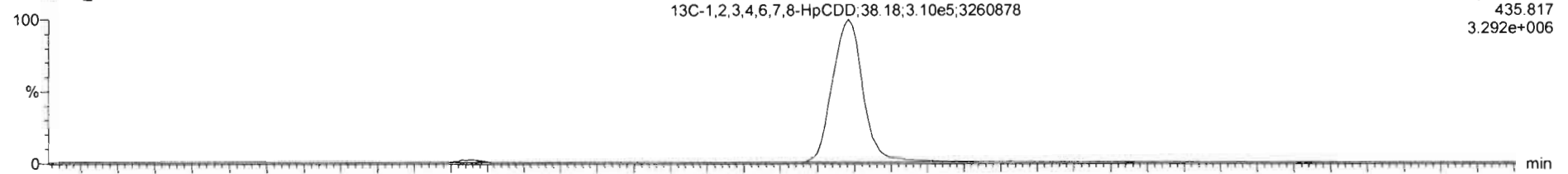


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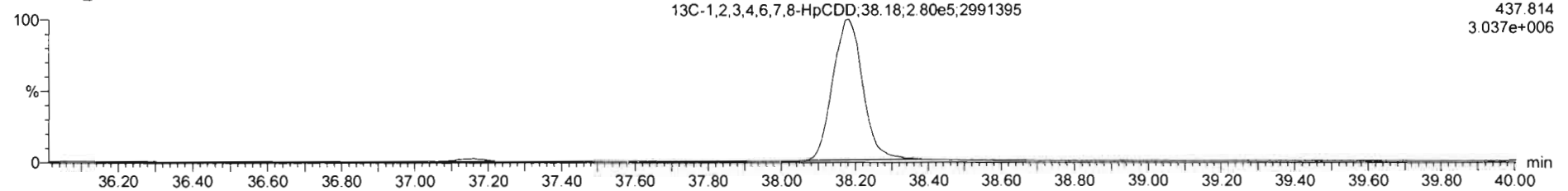


13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



200306R2_5



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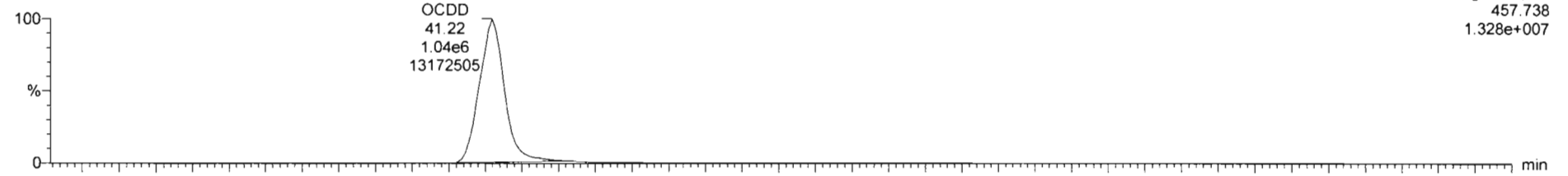
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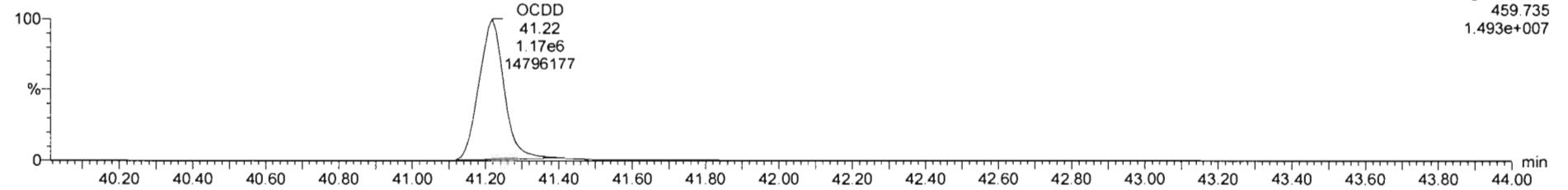
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OCDD

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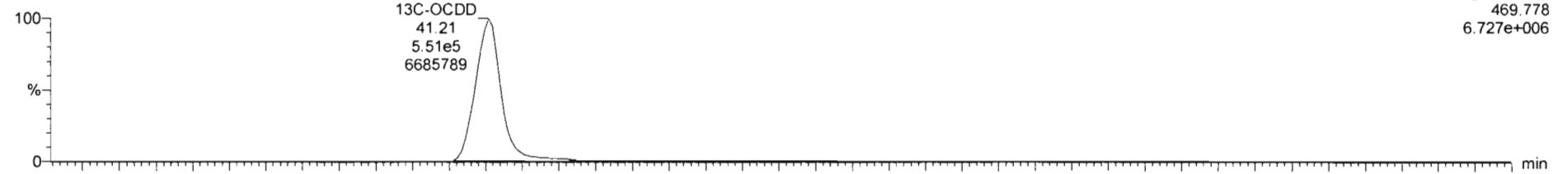


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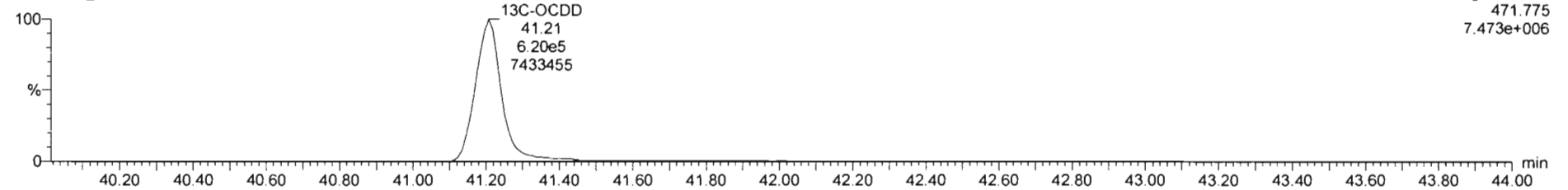


13C-OCDD

200306R2_5



200306R2_5



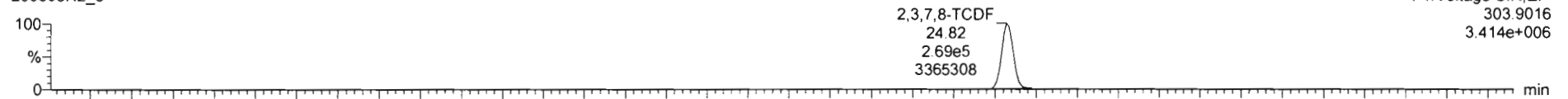
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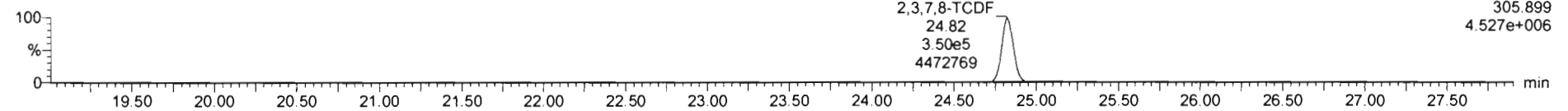
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2,3,7,8-TCDF

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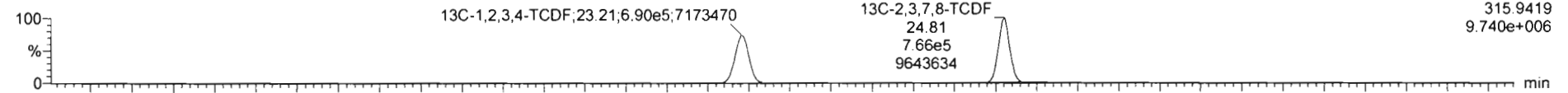


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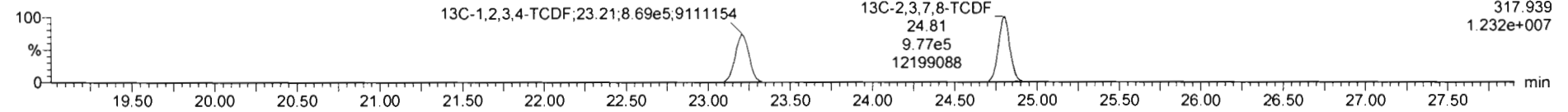


13C-2,3,7,8-TCDF

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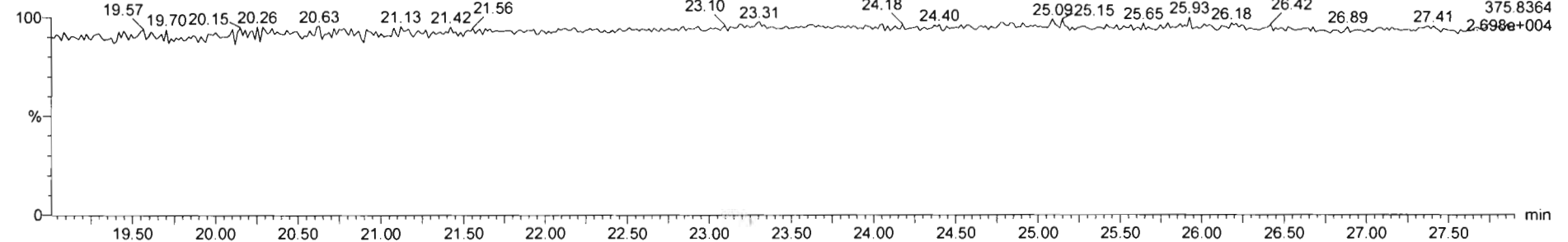


200306R2_5



DPE1

200306R2_5

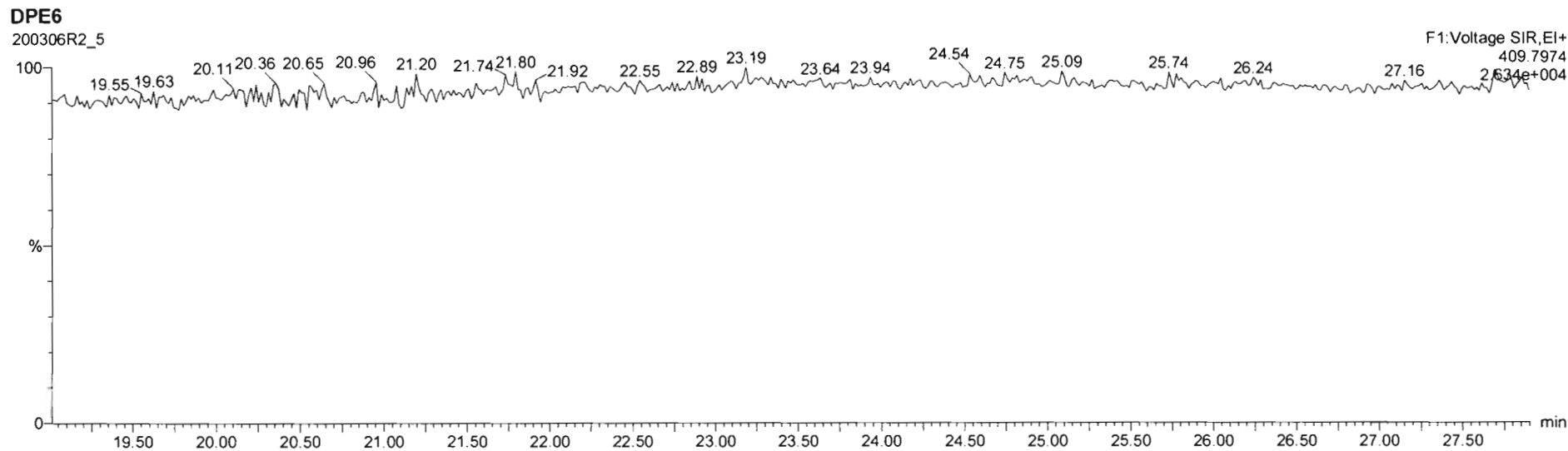
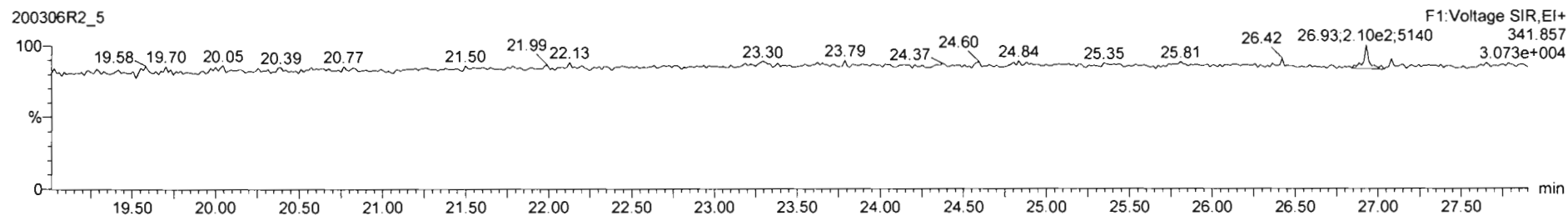
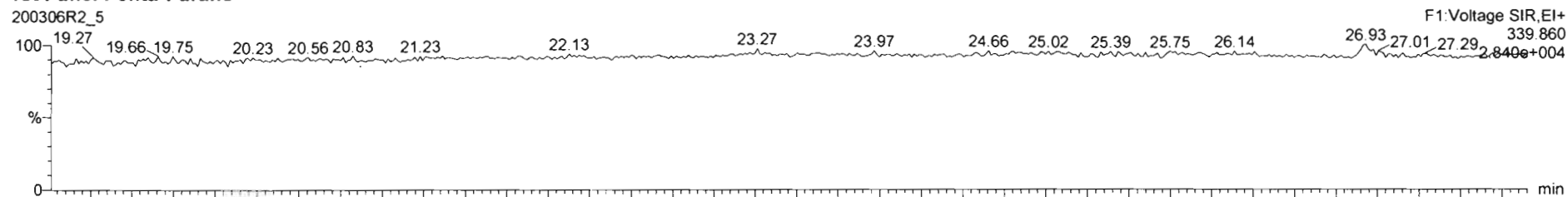


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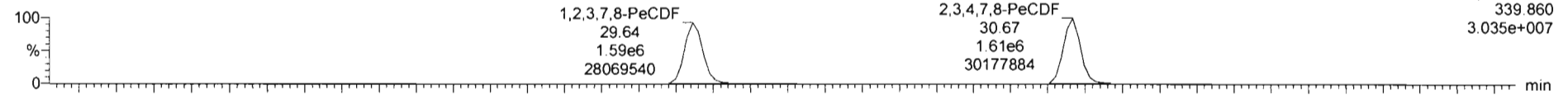
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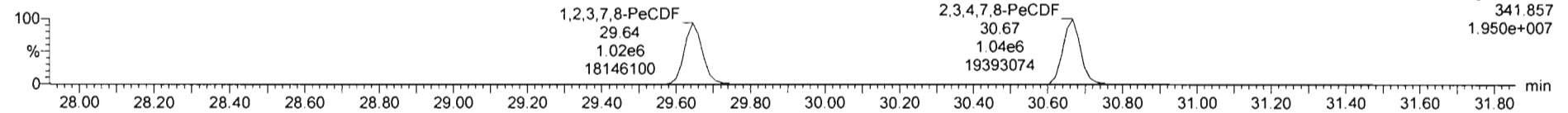
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1,2,3,7,8-PeCDF

200306R2_5

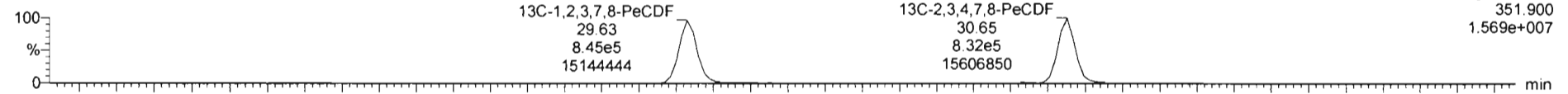


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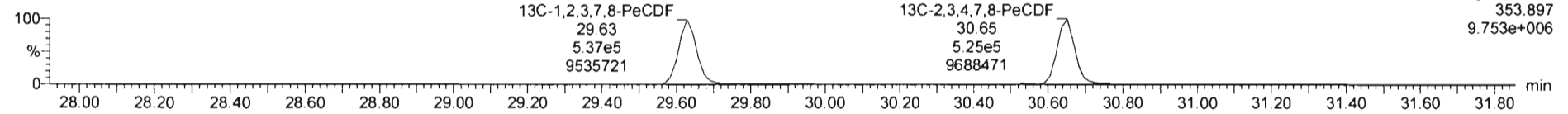


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200306R2_5

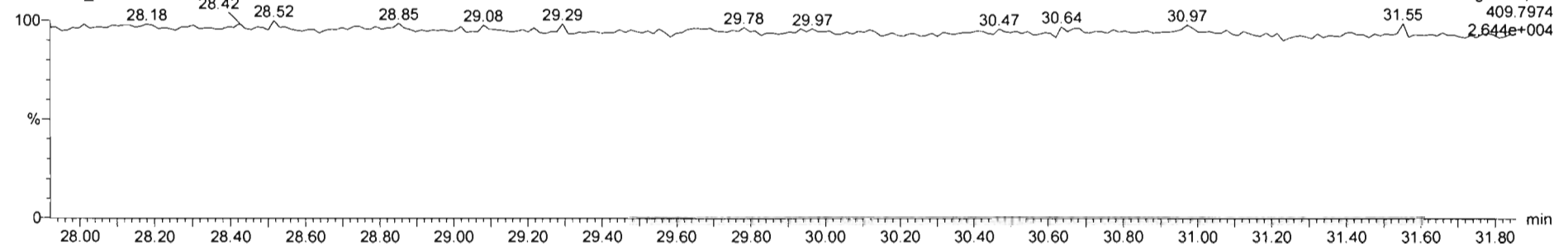


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DPE2

200306R2_5



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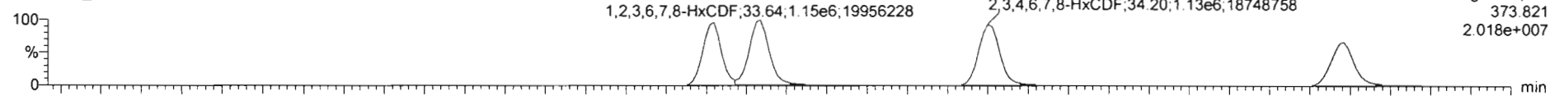
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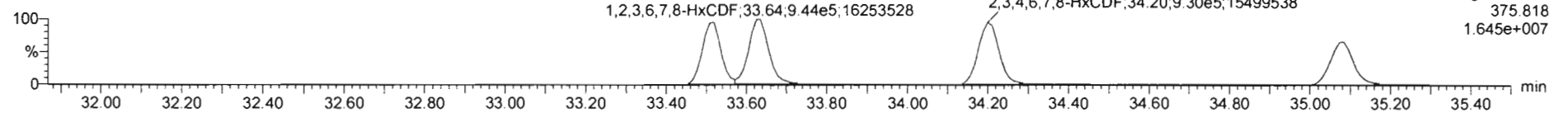
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1,2,3,4,7,8-HxCDF

200306R2_5

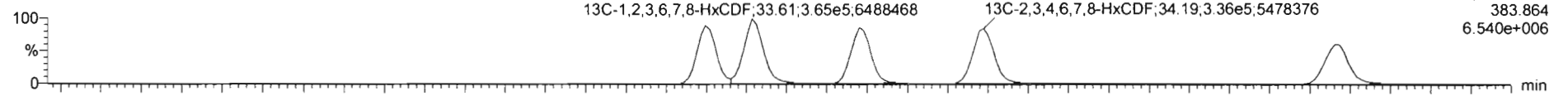


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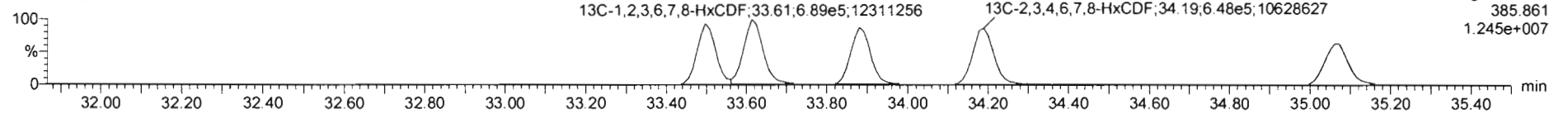


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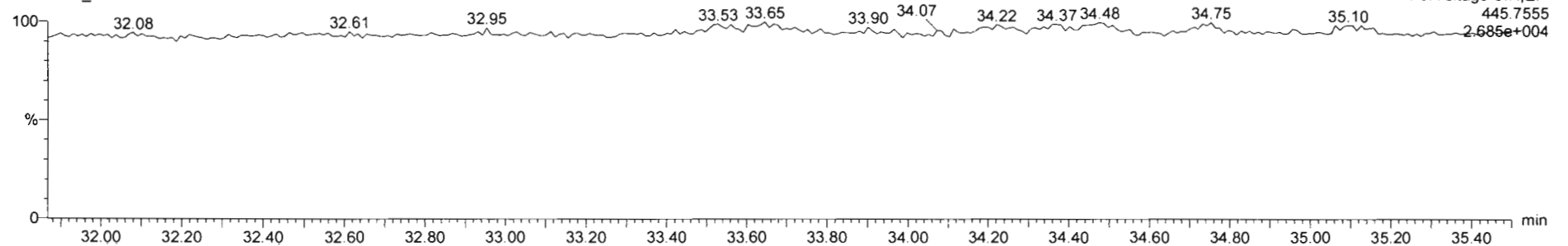


200306R2_5



DPE3

200306R2_5



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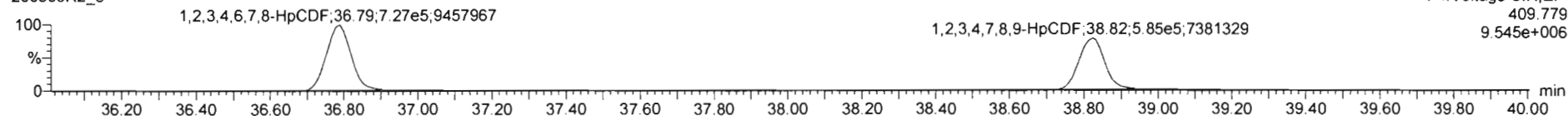
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1,2,3,4,6,7,8-HpCDF

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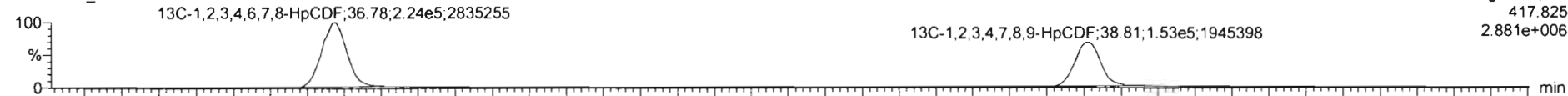


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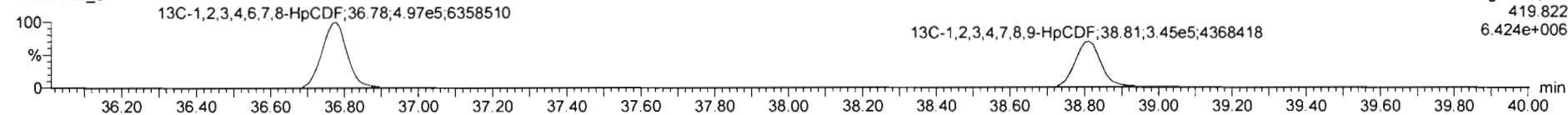


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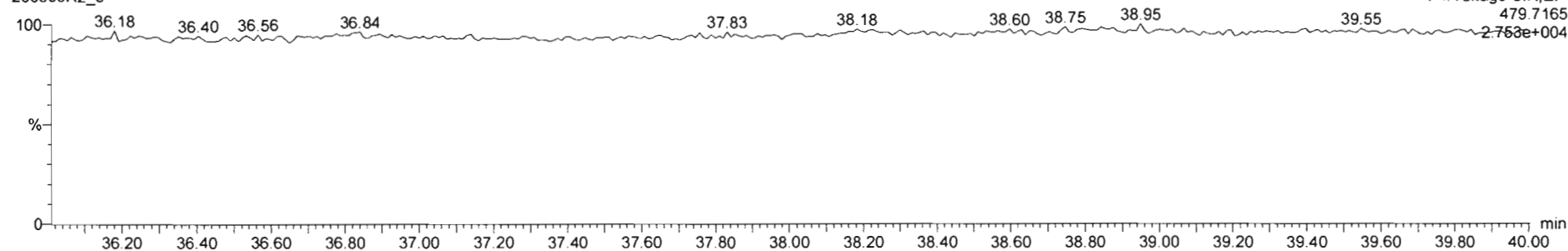


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DPE4

200306R2_5



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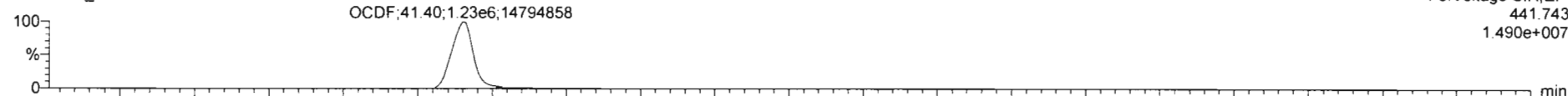
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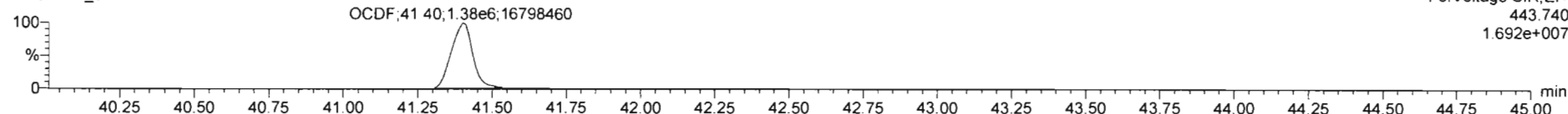
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OCDF

200306R2_5

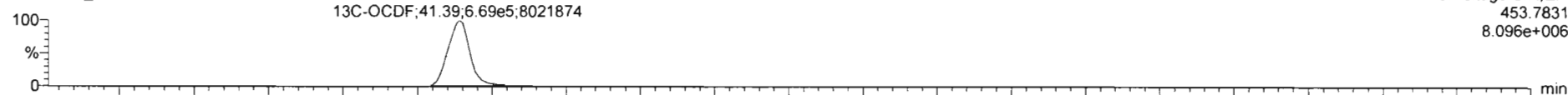


200306R2_5

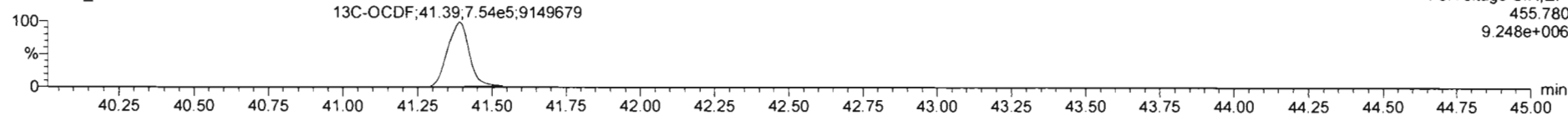


13C-OCDF

200306R2_5

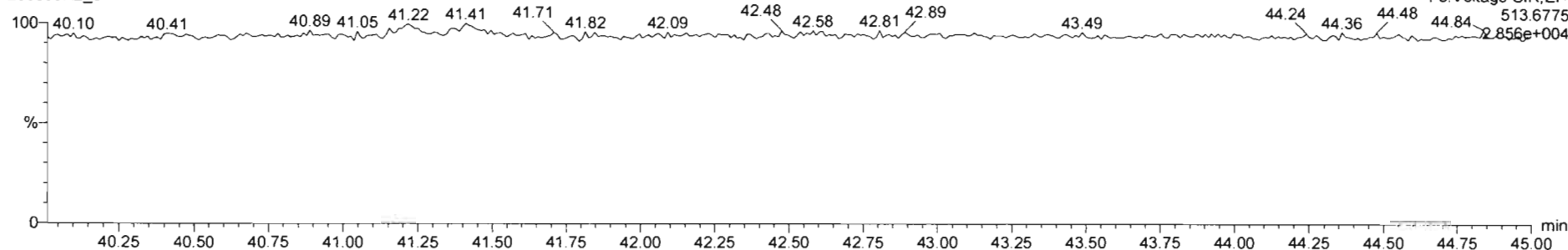


200306R2_5



DPE5

200306R2_5



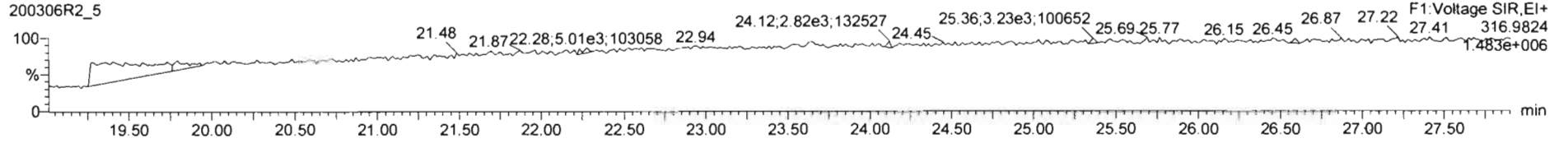
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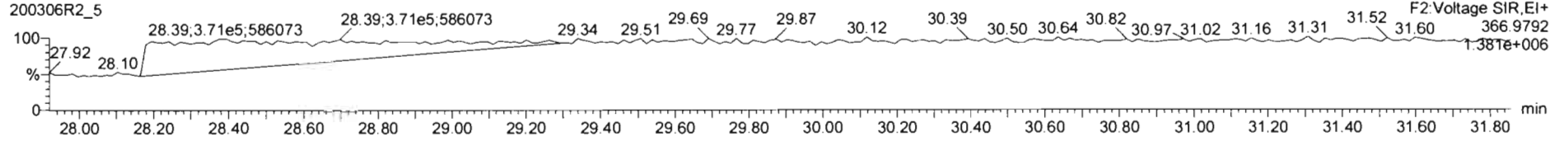
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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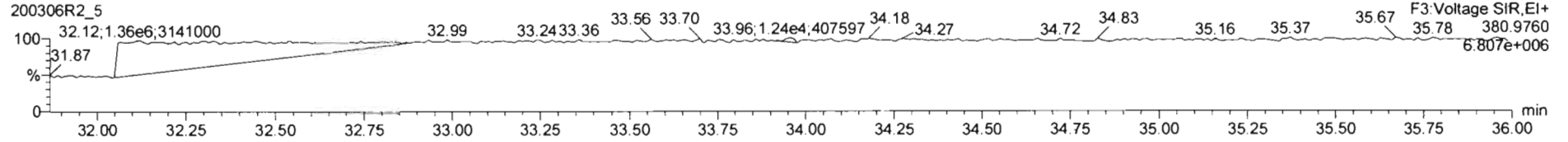
PFK1



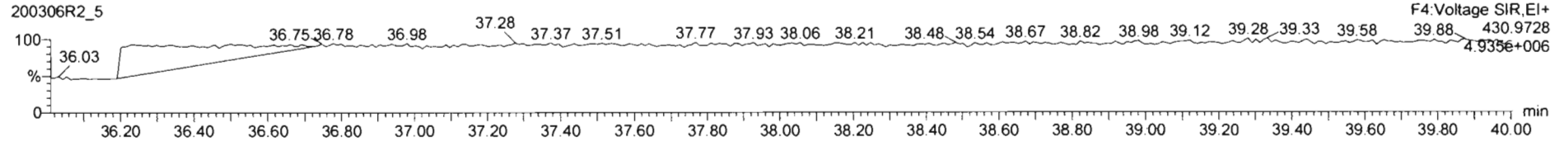
PFK2



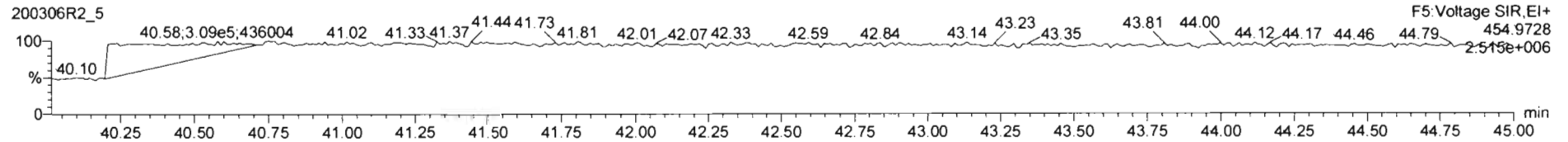
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PFK4



PFK5



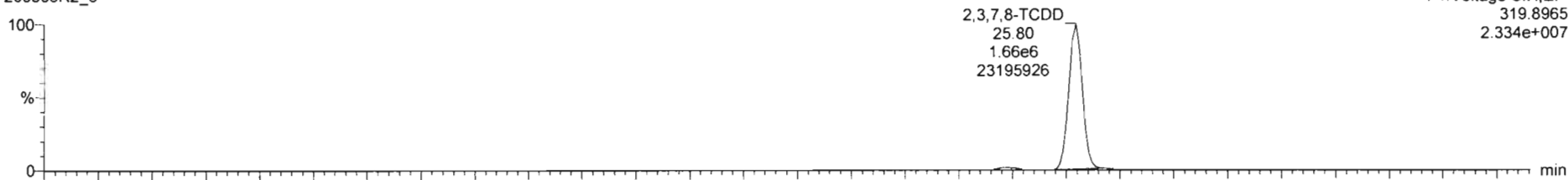
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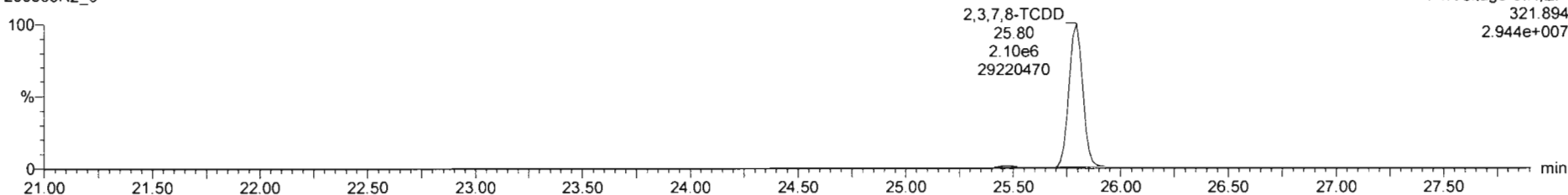
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2,3,7,8-TCDD

200306R2_6

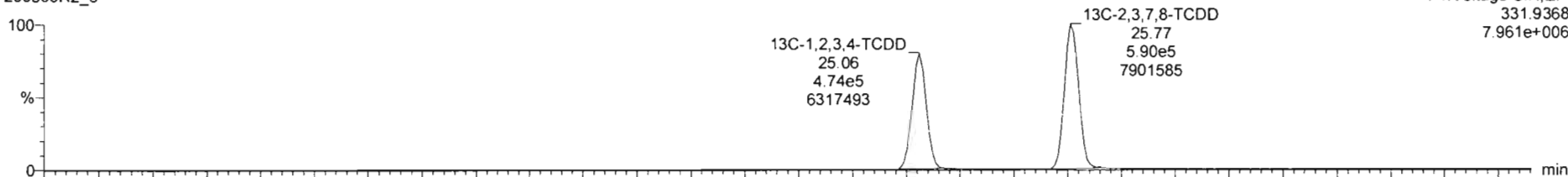


200306R2_6

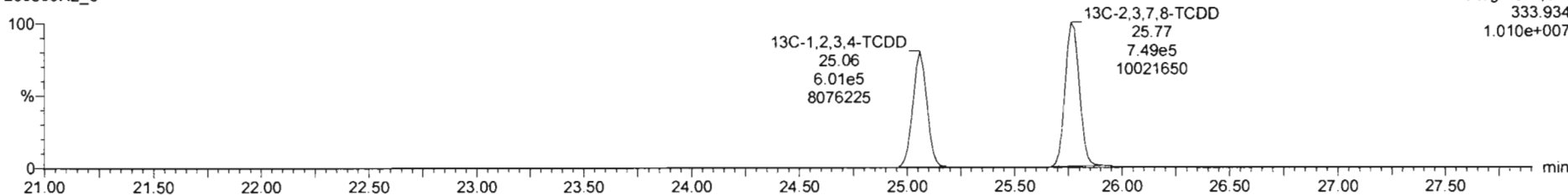


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



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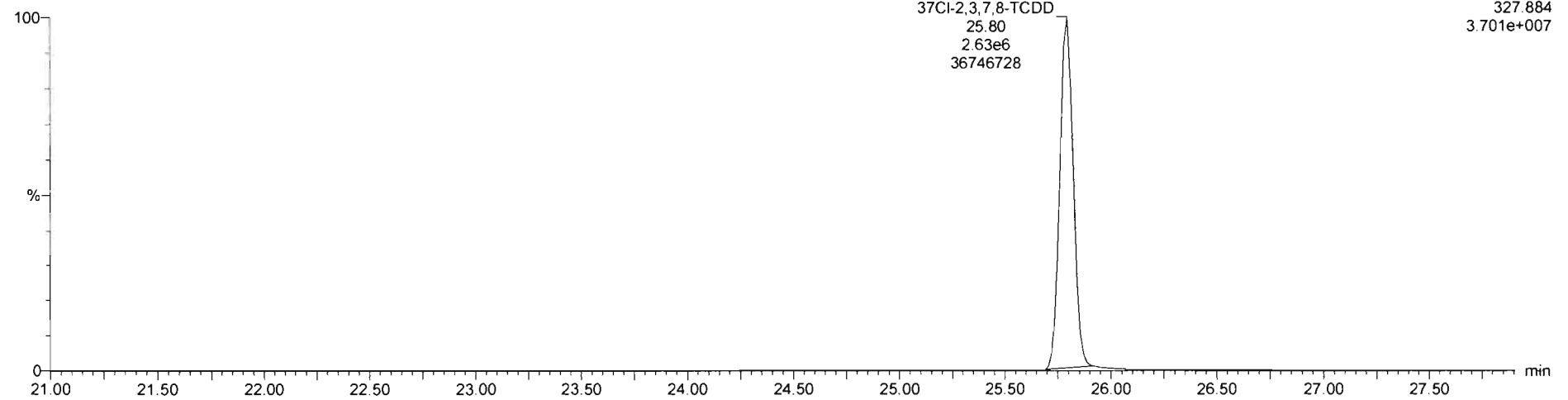
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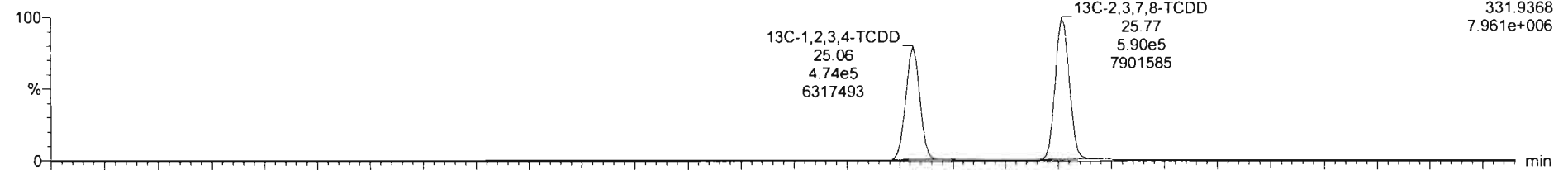
37Cl-2,3,7,8-TCDD

200306R2_6

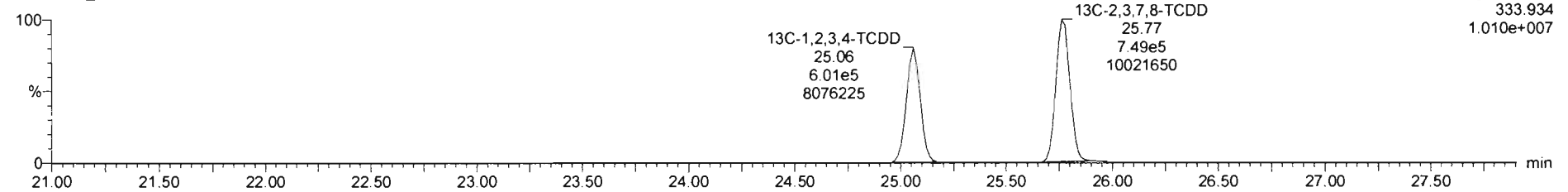


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



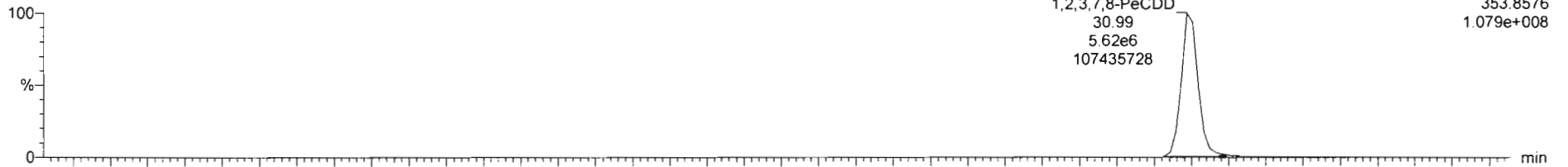
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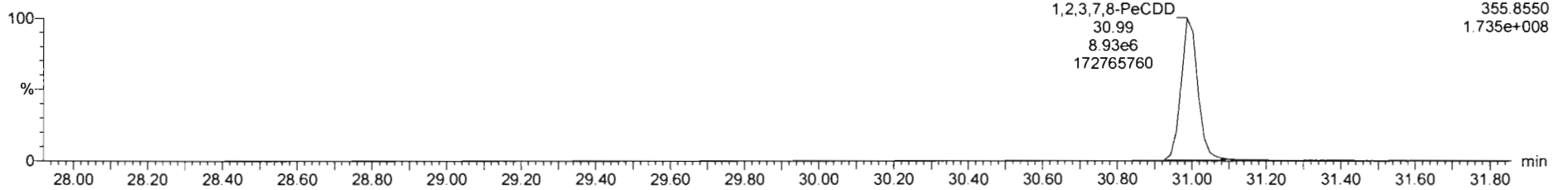
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1,2,3,7,8-PeCDD

200306R2_6

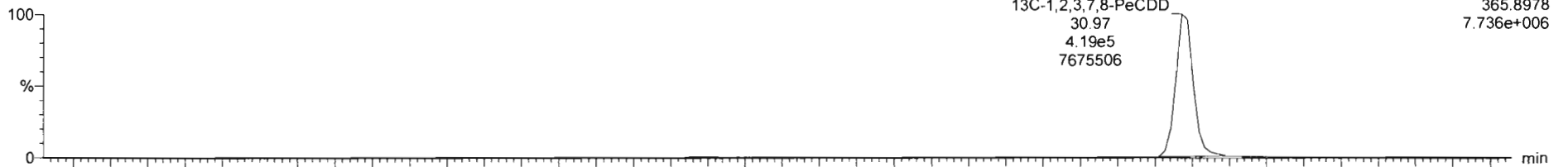


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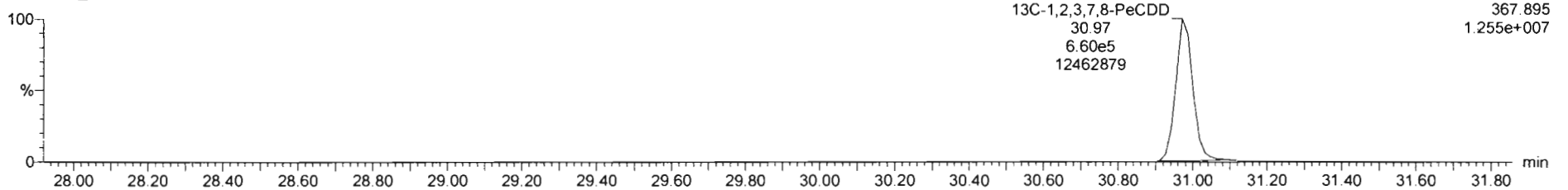


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



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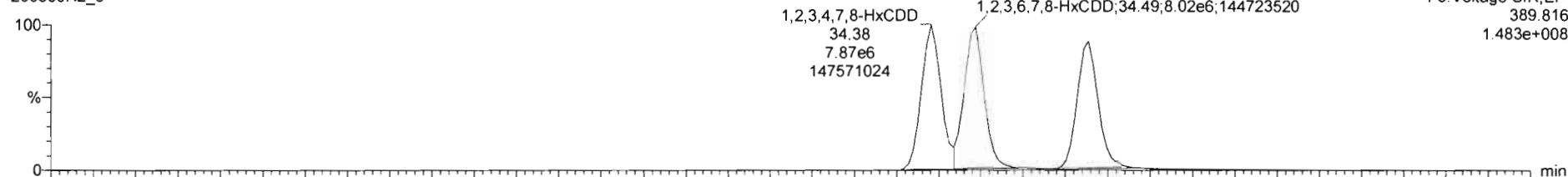
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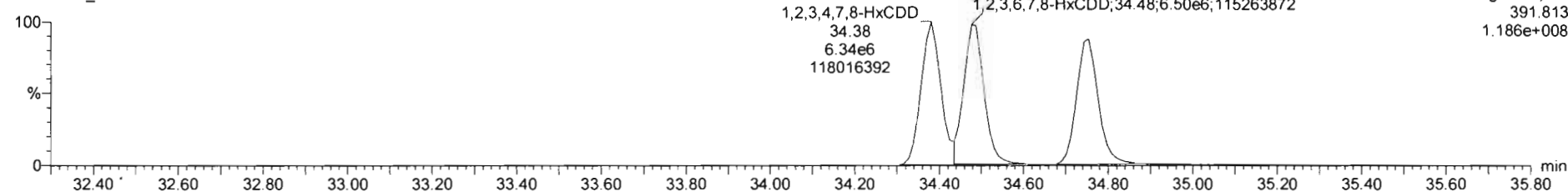
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1,2,3,4,7,8-HxCDD

200306R2_6

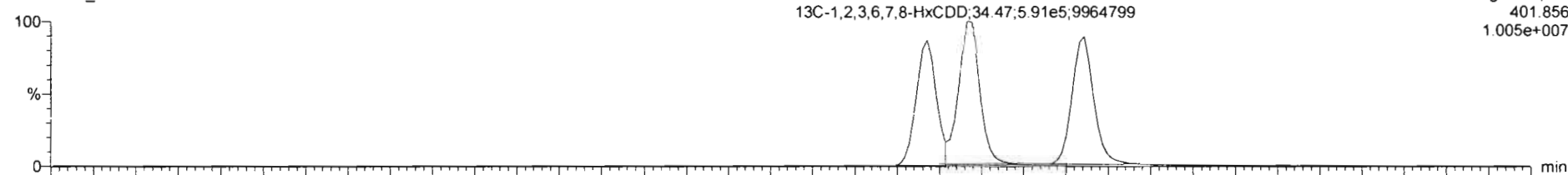


200306R2_6

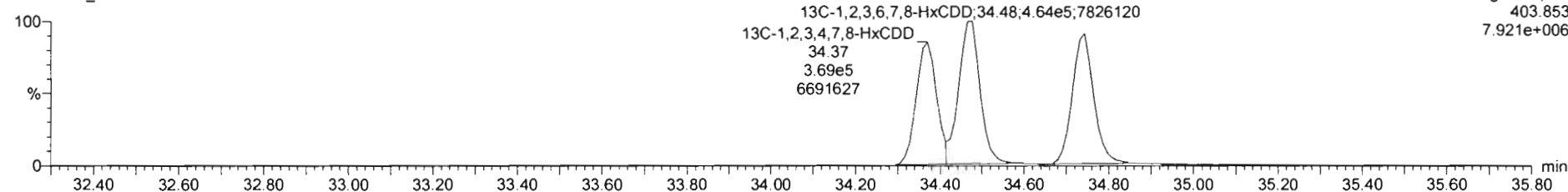


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



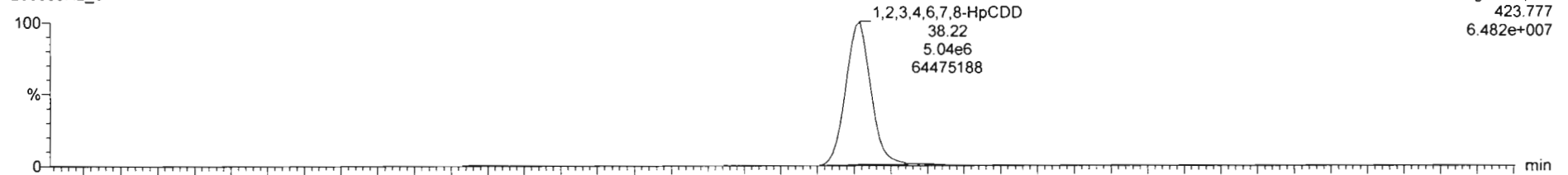
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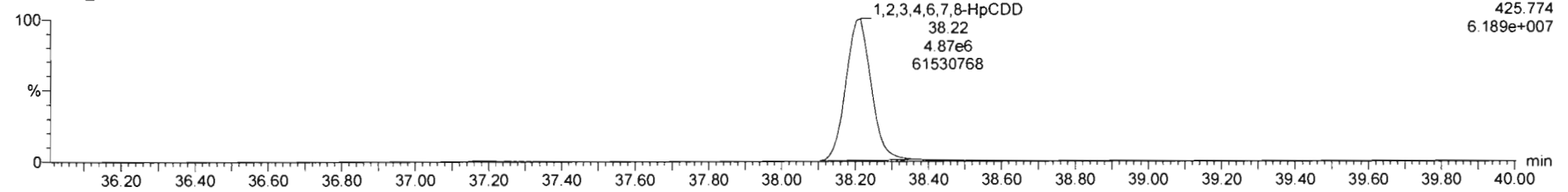
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1,2,3,4,6,7,8-HpCDD

200306R2_6

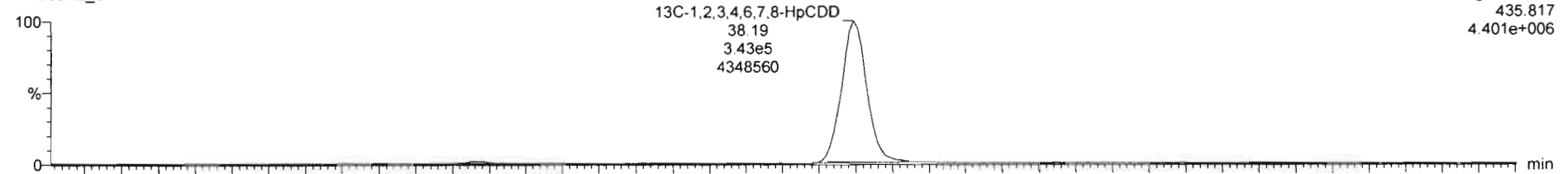


200306R2_6

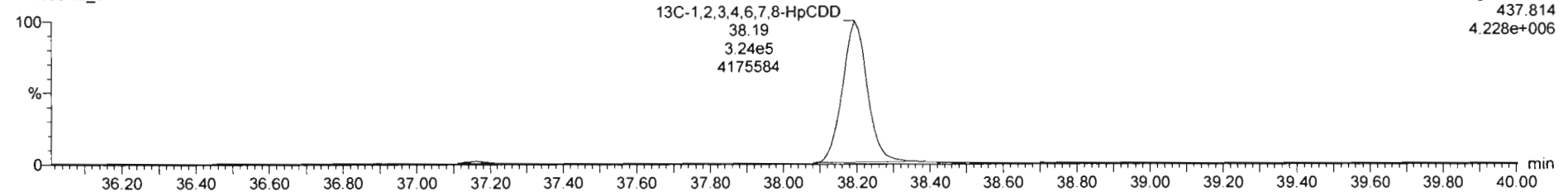


13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



200306R2_6



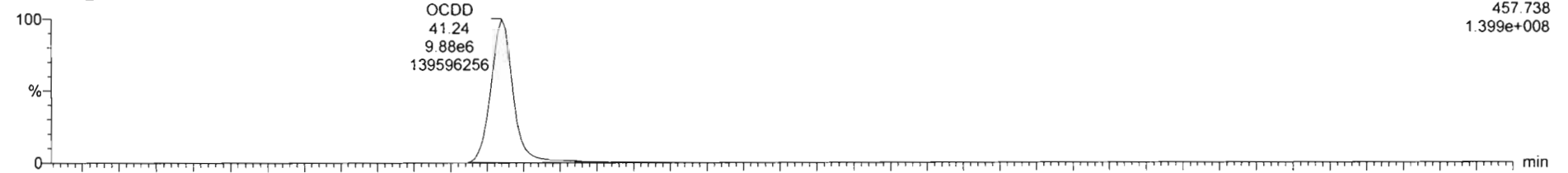
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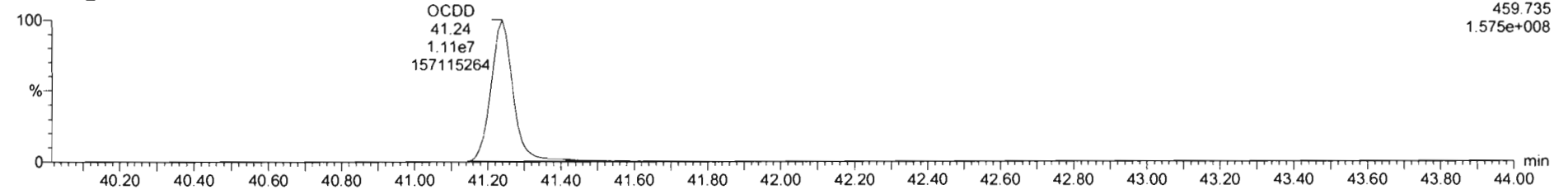
OCDD

200306R2_6



F5:Voltage SIR,EI+
457.738
1.399e+008

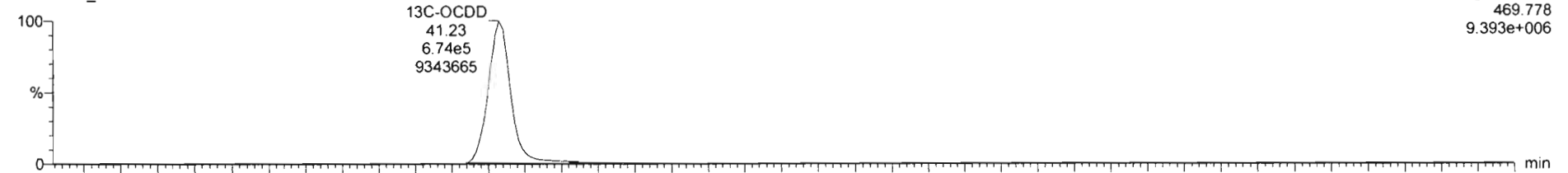
200306R2_6



F5:Voltage SIR,EI+
459.735
1.575e+008

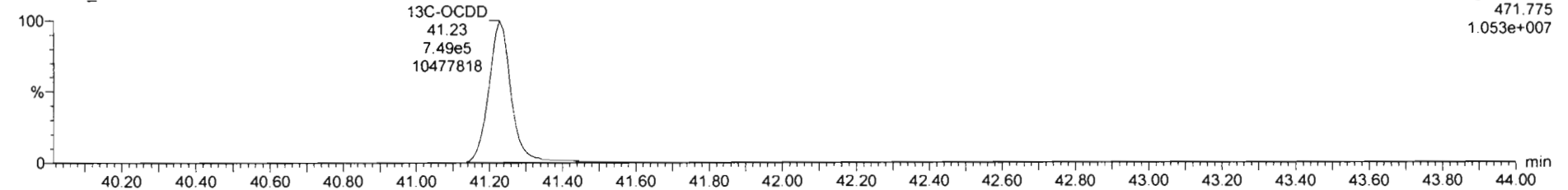
13C-OCDD

200306R2_6



F5:Voltage SIR,EI+
469.778
9.393e+006

200306R2_6



F5:Voltage SIR,EI+
471.775
1.053e+007

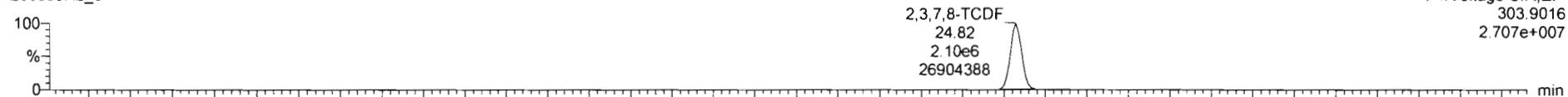
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

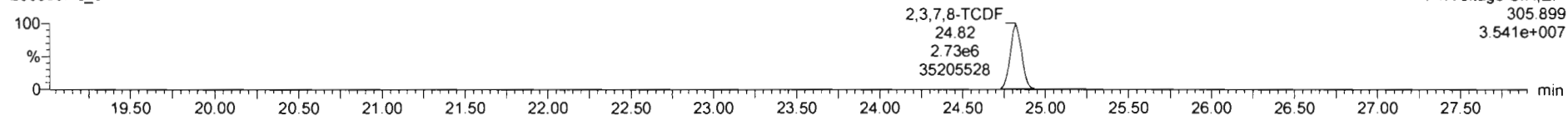
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2,3,7,8-TCDF

200306R2_6

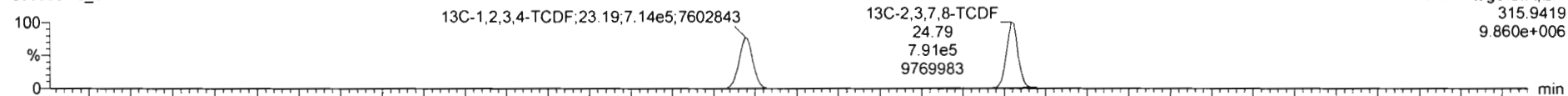


200306R2_6

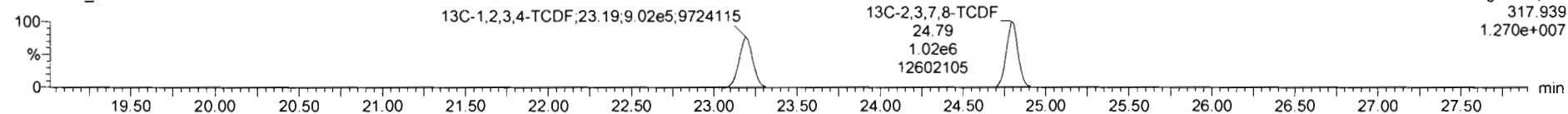


13C-2,3,7,8-TCDF

200306R2_6

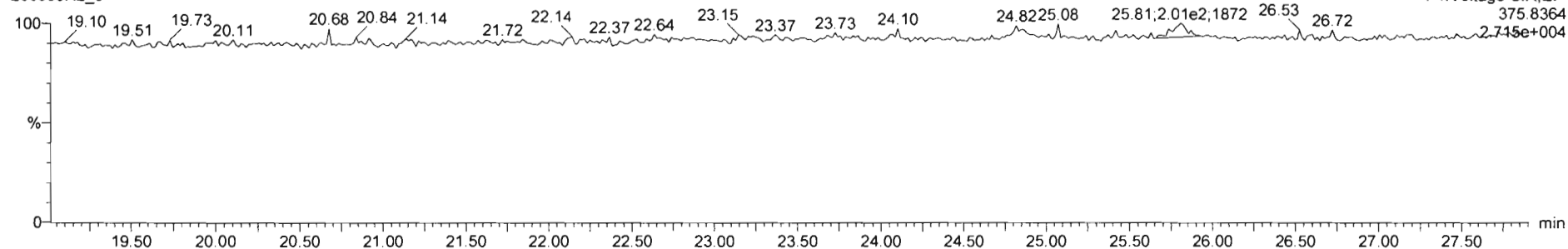


200306R2_6



DPE1

200306R2_6



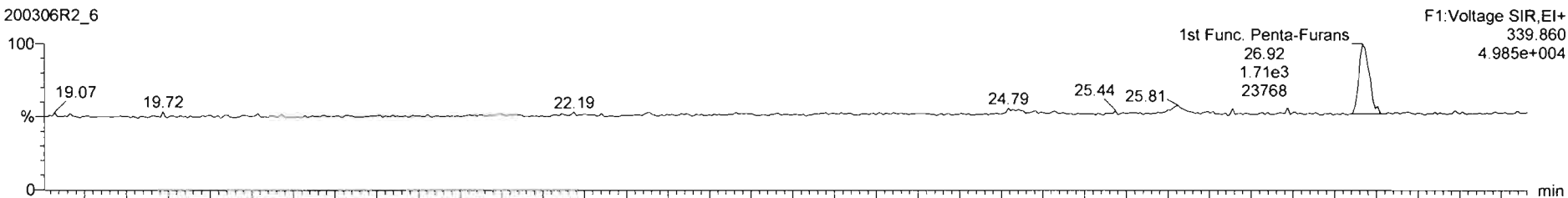
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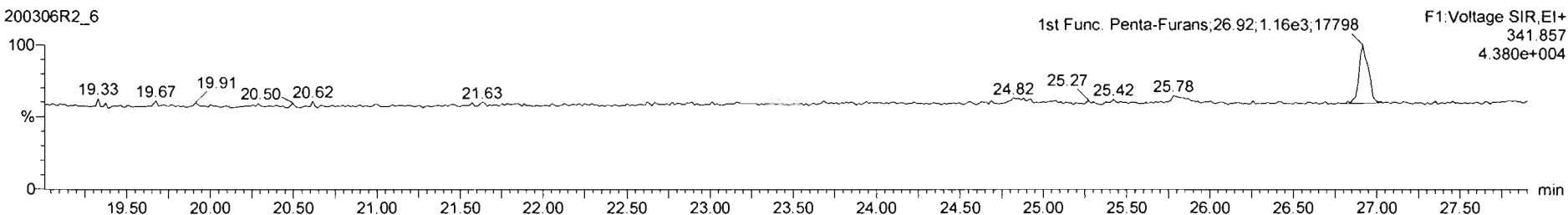
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1st Func. Penta-Furans

200306R2_6

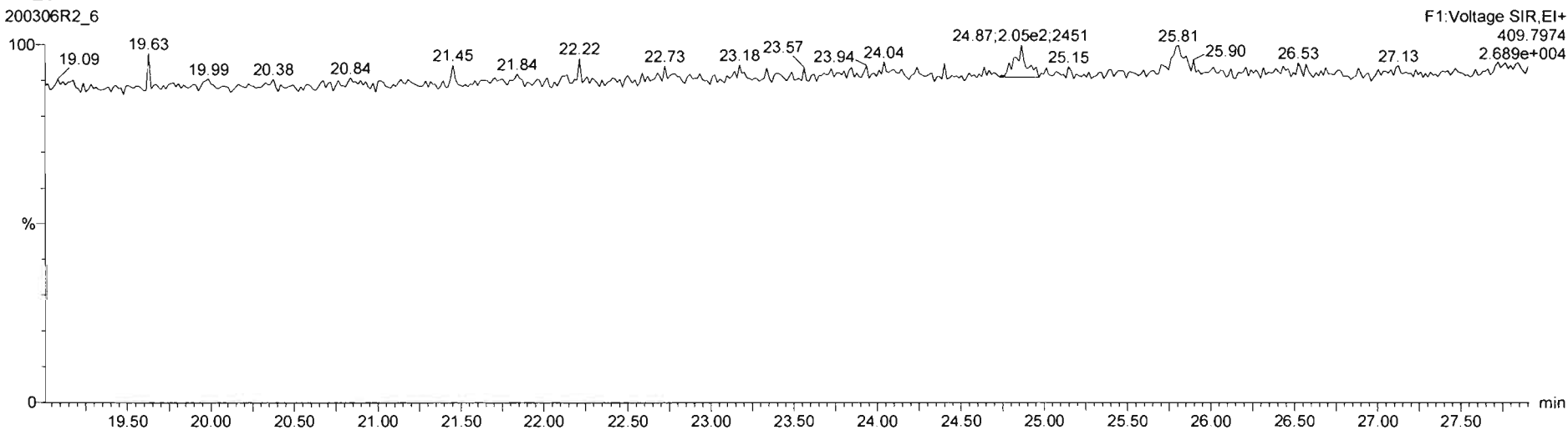


200306R2_6



DPE6

200306R2_6



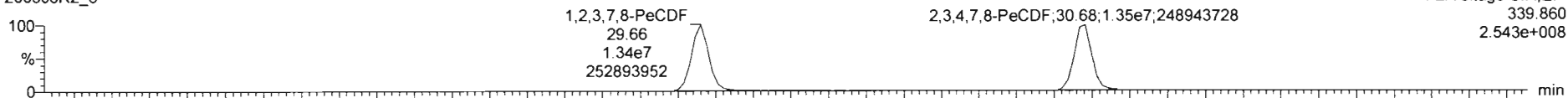
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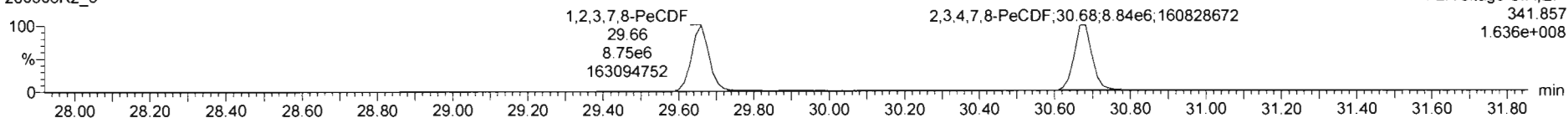
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1,2,3,7,8-PeCDF

200306R2_6

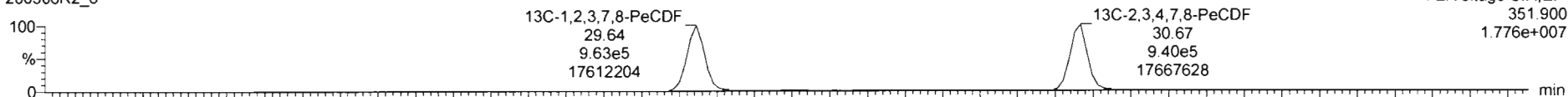


200306R2_6

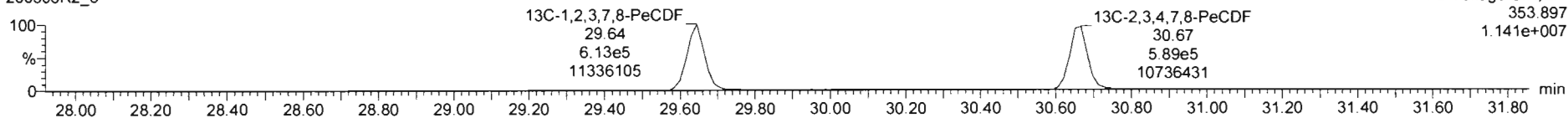


13C-1,2,3,7,8-PeCDF

200306R2_6

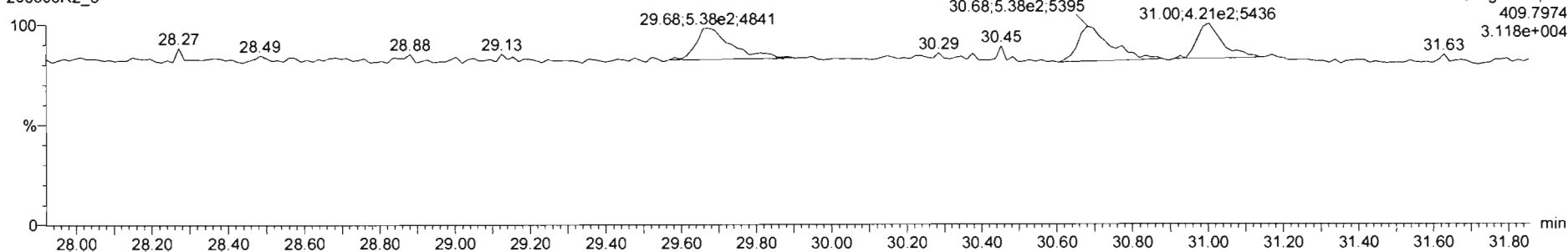


200306R2_6



DPE2

200306R2_6



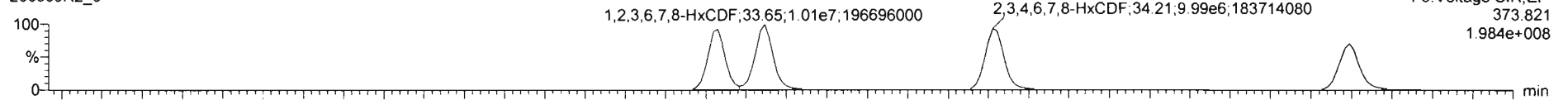
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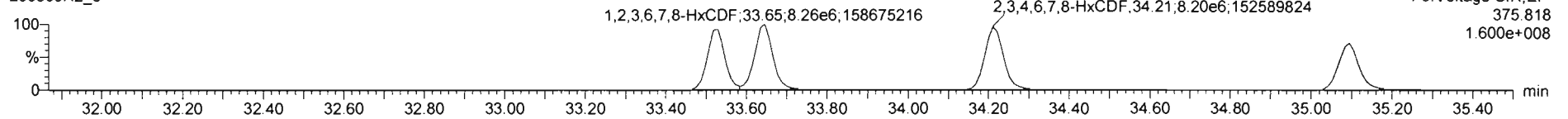
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1,2,3,4,7,8-HxCDF

200306R2_6

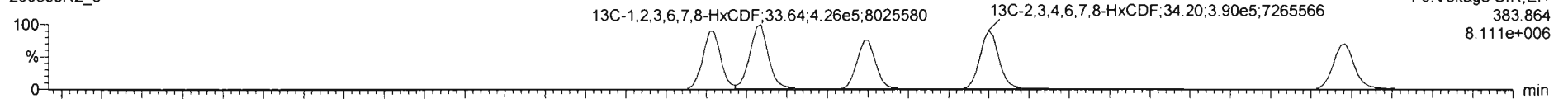


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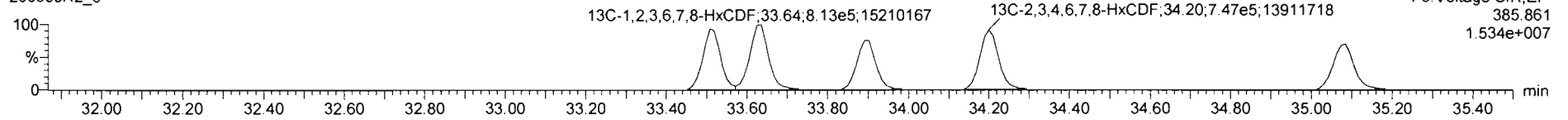


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200306R2_6

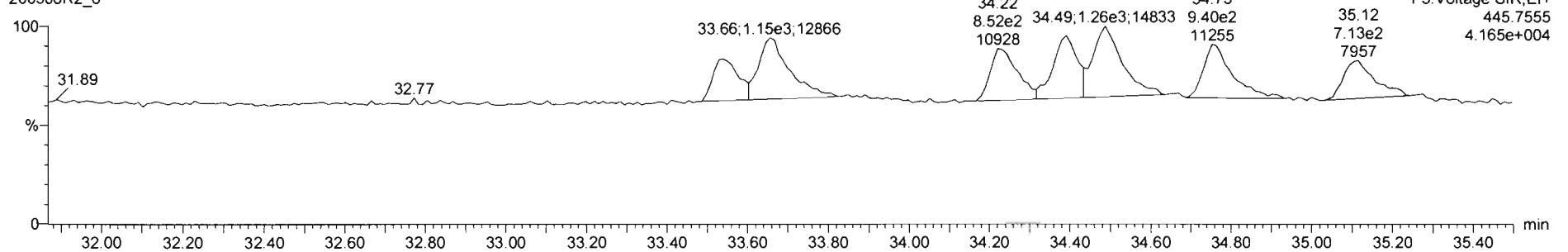


200306R2_6



DPE3

200306R2_6



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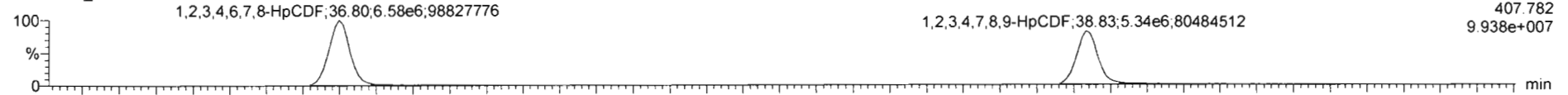
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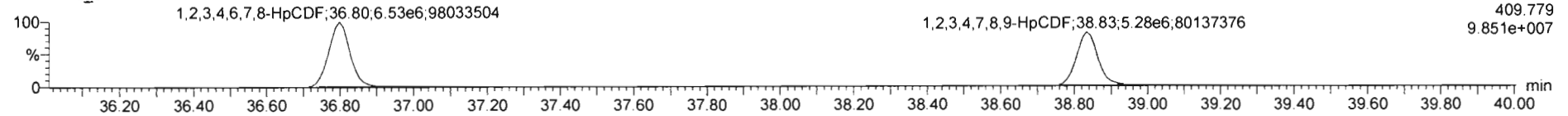
1,2,3,4,6,7,8-HpCDF

200306R2_6



F4:Voltage SIR,EI+
407.782
9.938e+007

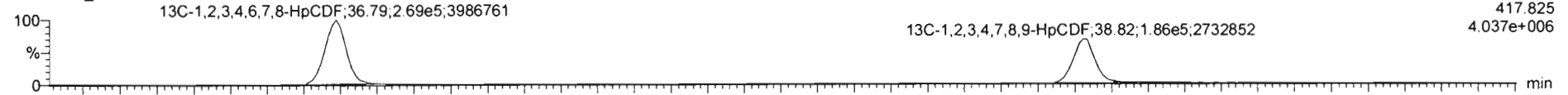
200306R2_6



F4:Voltage SIR,EI+
409.779
9.851e+007

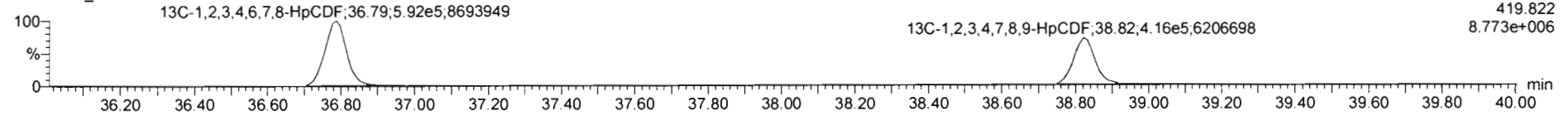
13C-1,2,3,4,6,7,8-HpCDF

200306R2_6



F4:Voltage SIR,EI+
417.825
4.037e+006

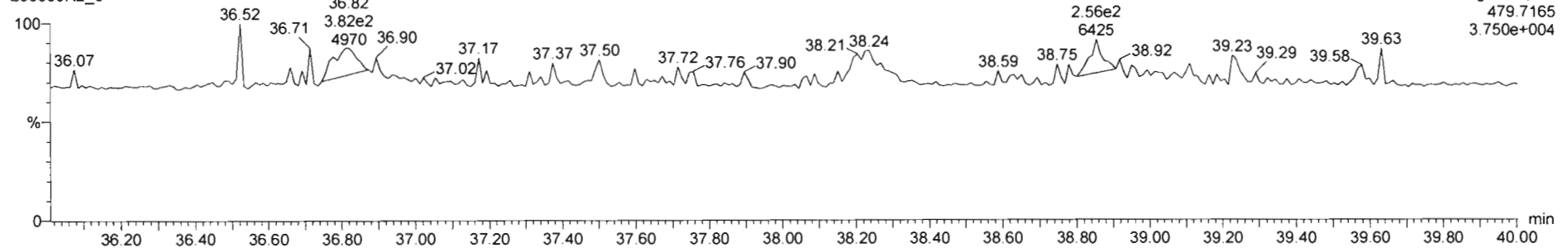
200306R2_6



F4:Voltage SIR,EI+
419.822
8.773e+006

DPE4

200306R2_6

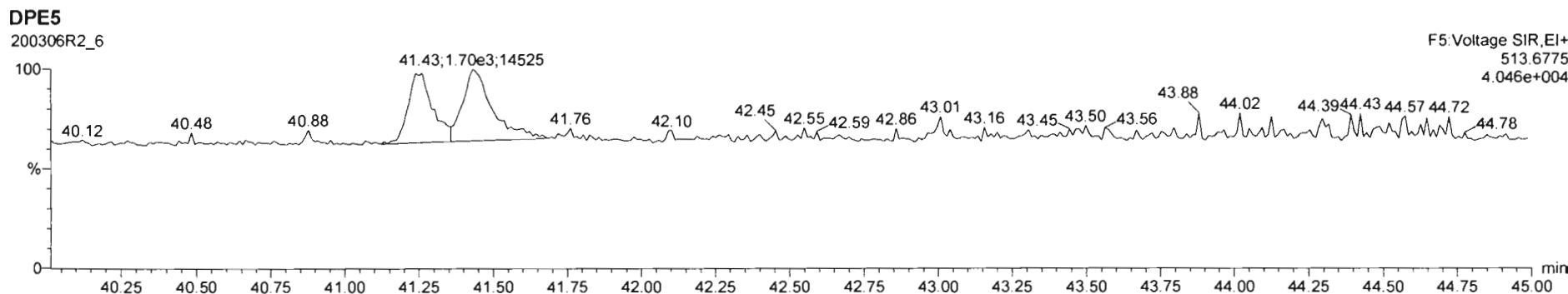
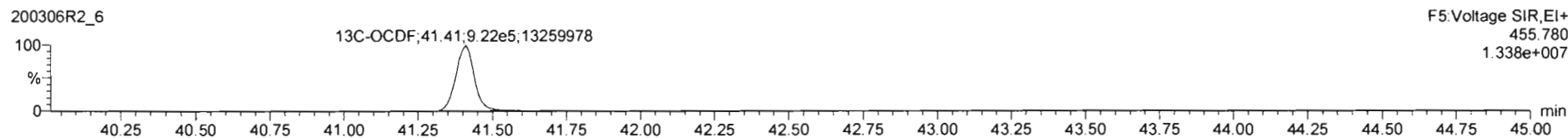
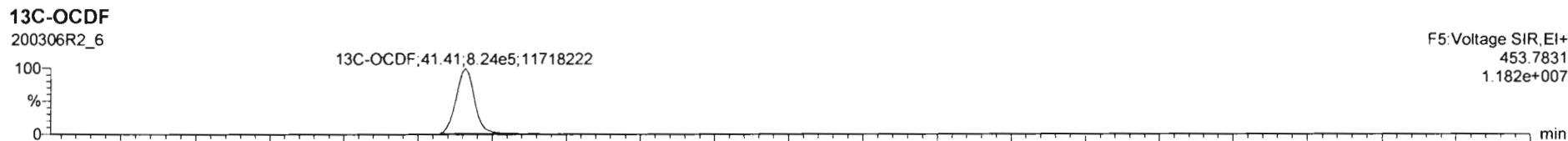
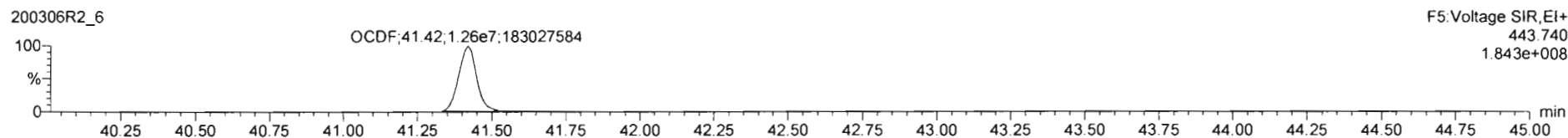
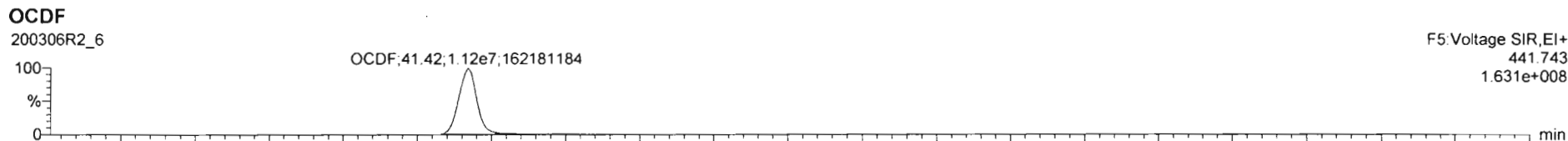


F4:Voltage SIR,EI+
479.7165
3.750e+004

Dataset: Untitled

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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

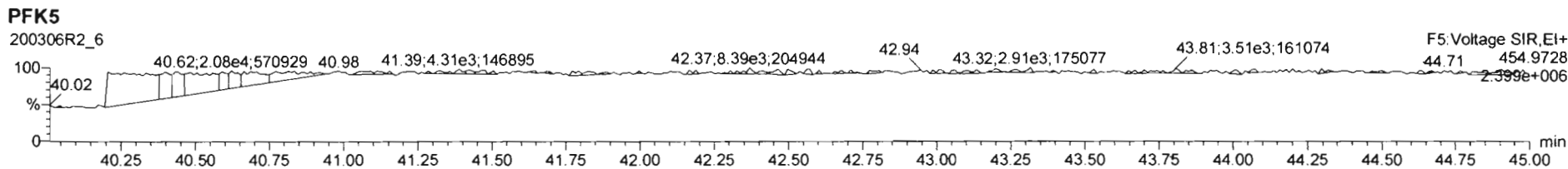
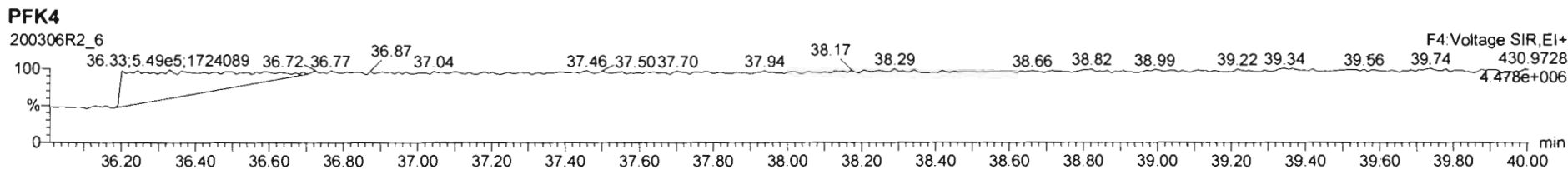
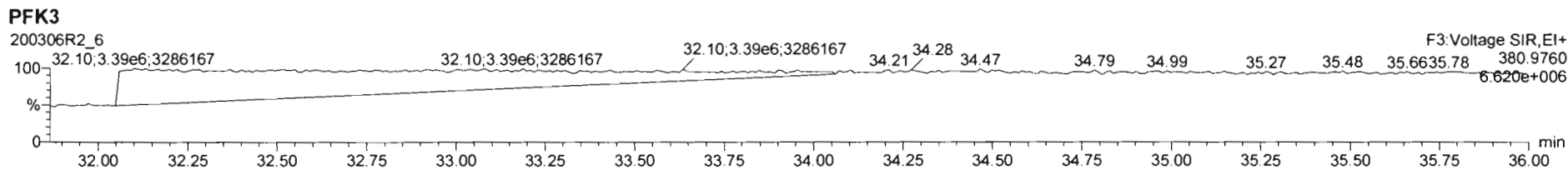
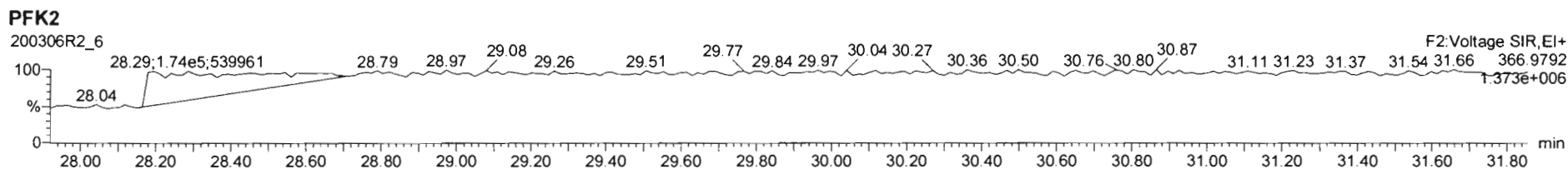
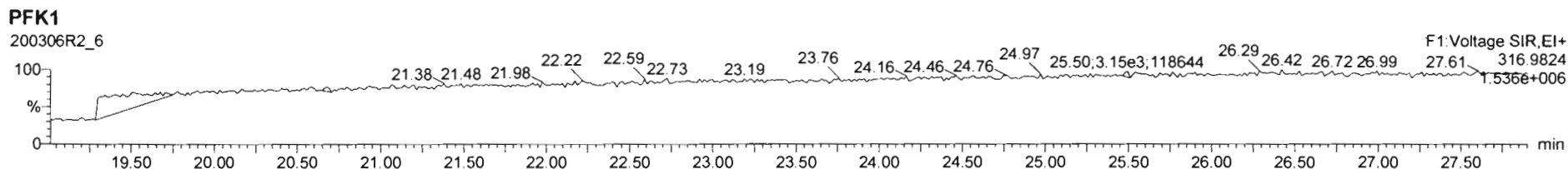
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Dataset: Untitled

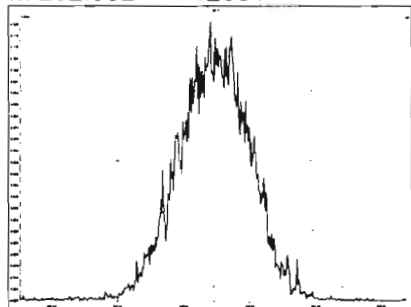
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

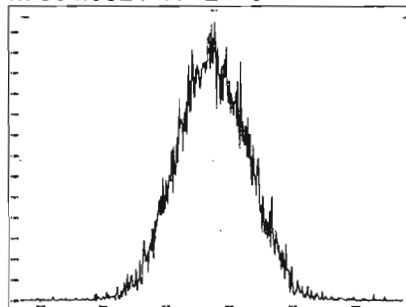


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

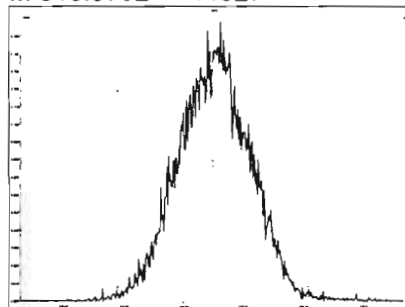
M 292.9824 R 12631



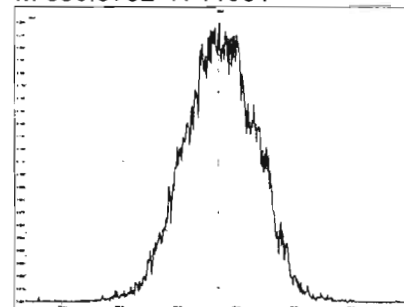
M 304.9824 R 12475



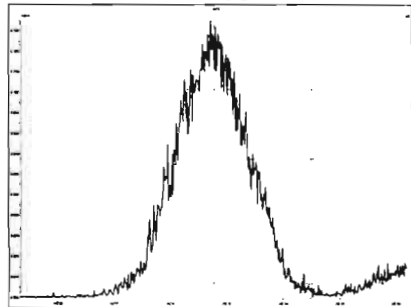
M 318.9792 R 11827



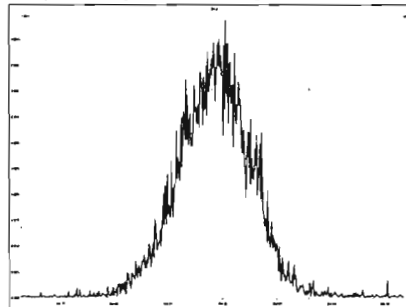
M 330.9792 R 11961



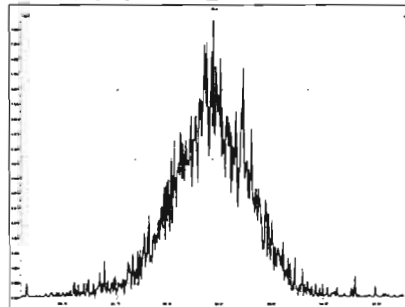
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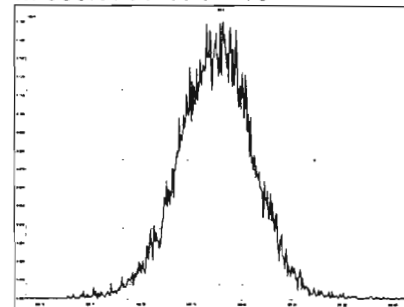
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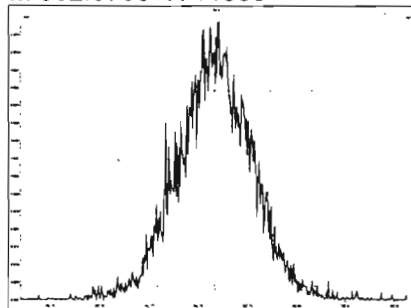
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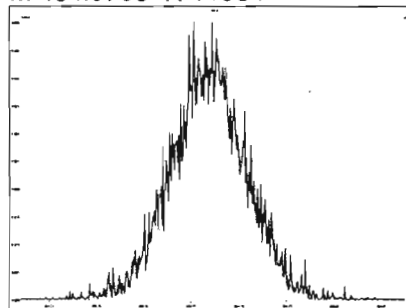
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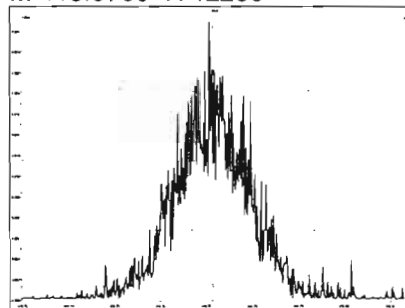
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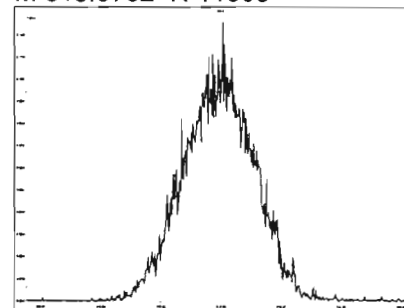
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M 416.9760 R 12269

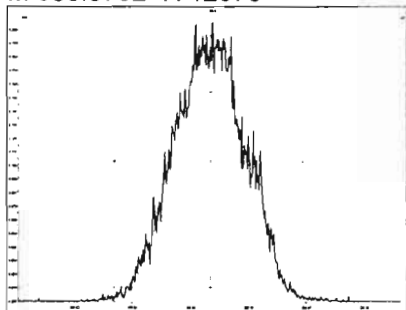


M 318.9792 R 11905

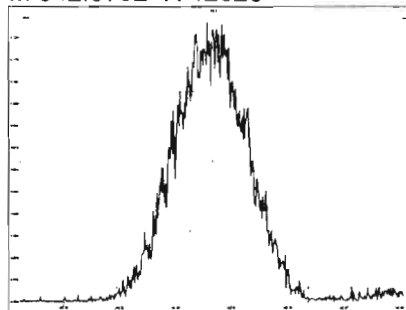


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

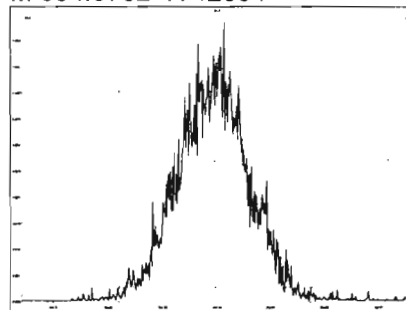
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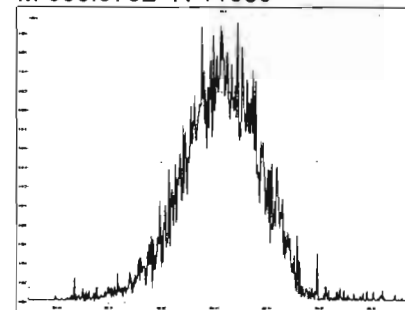
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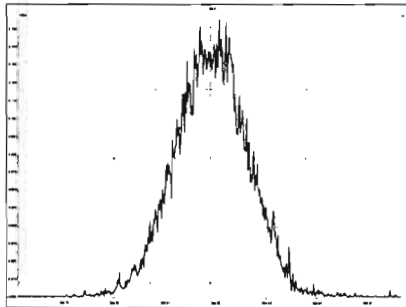
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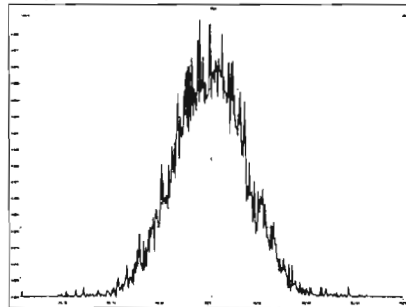
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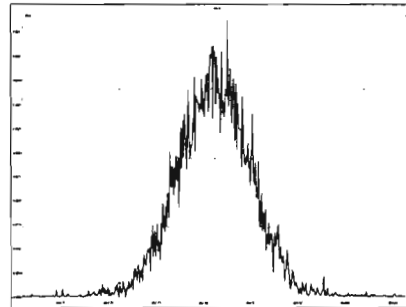
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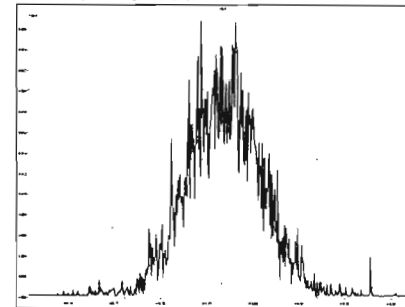
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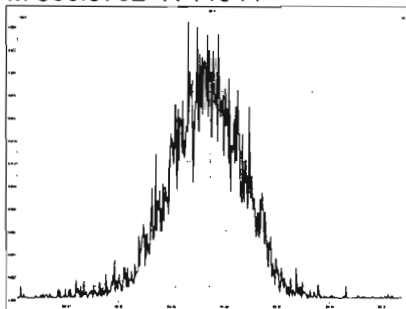
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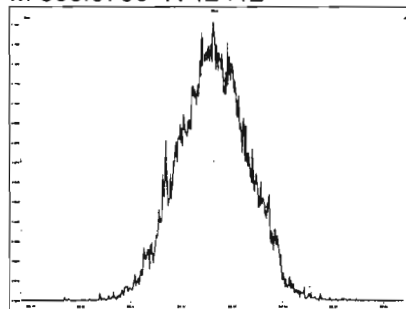
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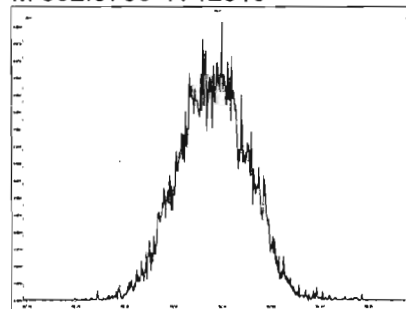
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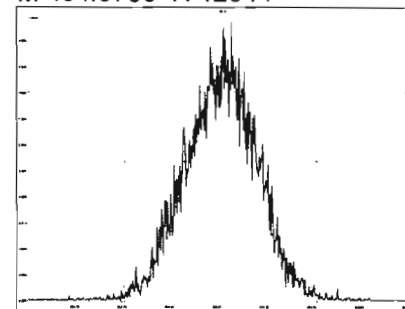
M 380.9760 R 12412



M 392.9760 R 12319

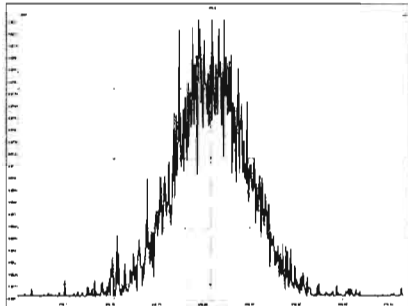


M 404.9760 R 12544

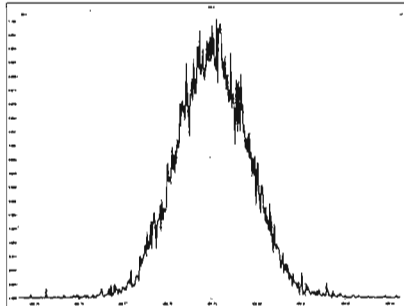


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

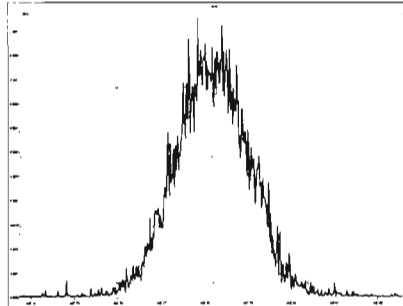
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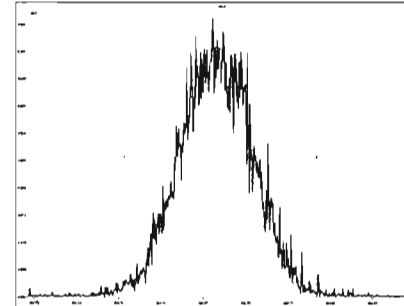
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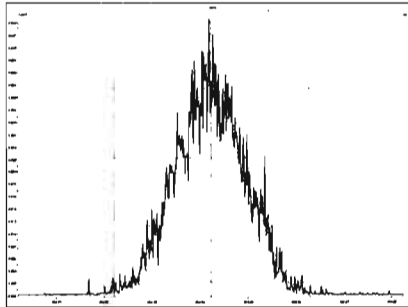
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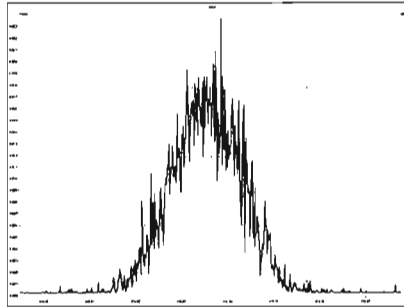
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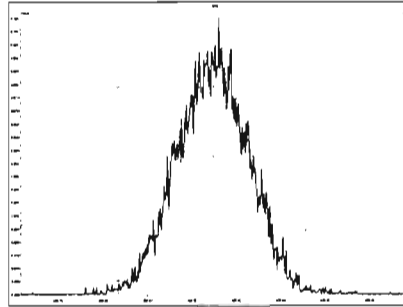
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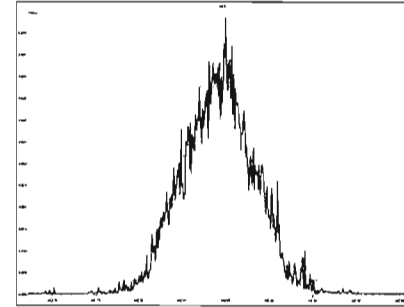
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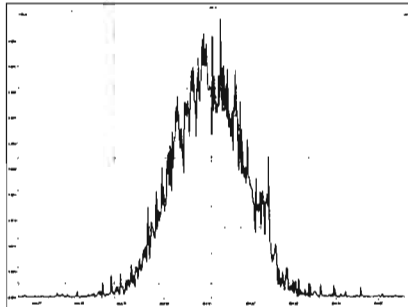
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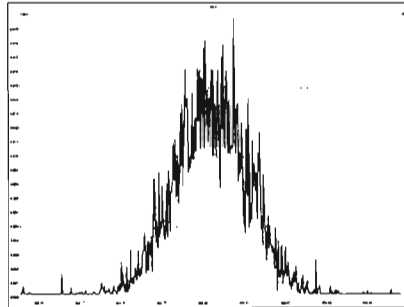
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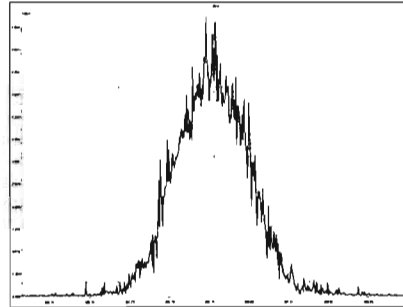
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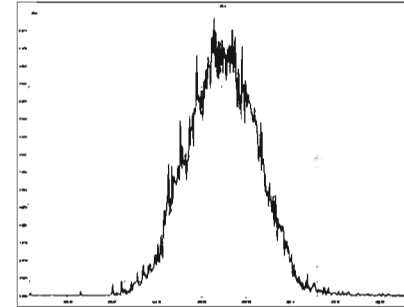
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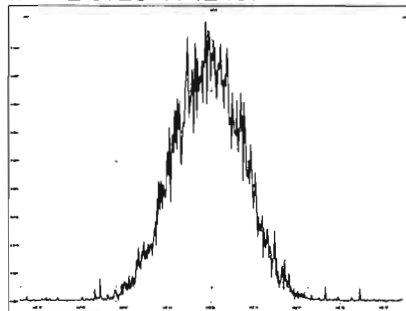


M 430.9728 R 12416

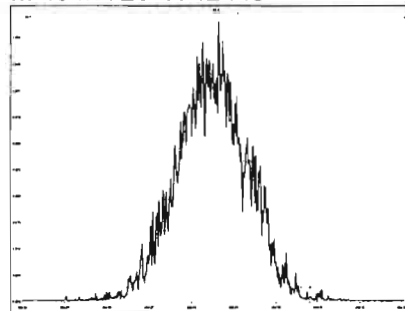


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

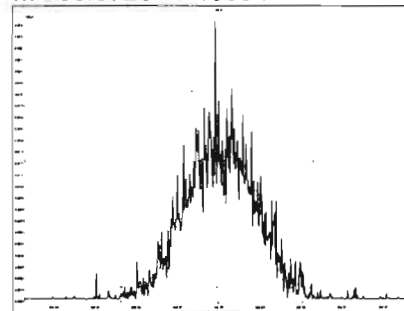
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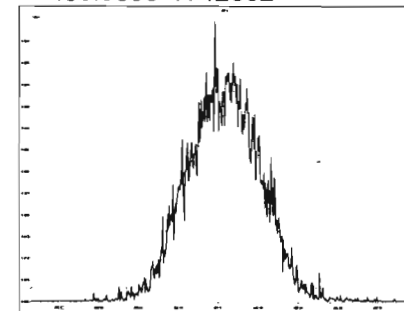
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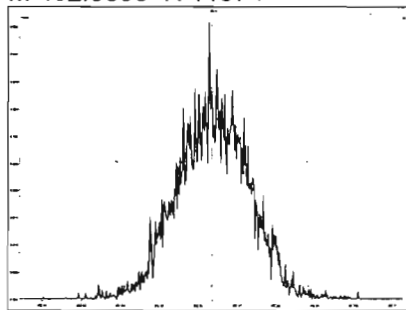
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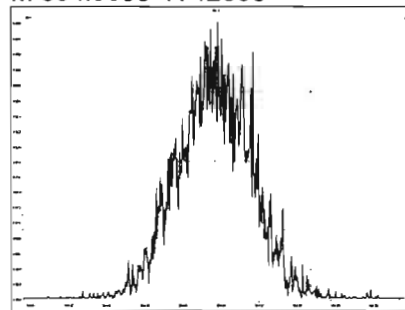
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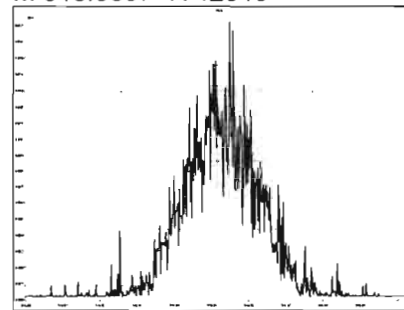
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M 504.9696 R 12658



M 516.9697 R 12919



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

GRB 03/09/2020

03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	9.28e4	0.77	NO	0.983	1.000	25.781	25.78	1.001	1.001	10.508	105	0.0462	10.5
2	2 1,2,3,7,8-PeCDD	3.71e5	0.63	NO	0.921	1.000	30.979	30.97	1.001	1.000	54.038	108	0.0655	54.0
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.24	NO	1.13	1.000	34.349	34.36	1.000	1.001	53.824	108	0.101	53.8
4	4 1,2,3,6,7,8-HxCDD	3.81e5	1.27	NO	0.984	1.000	34.445	34.46	1.000	1.000	57.230	114	0.0994	57.2
5	5 1,2,3,7,8,9-HxCDD	3.33e5	1.22	NO	0.967	1.000	34.722	34.72	1.000	1.000	56.617	113	0.117	56.6
6	6 1,2,3,4,6,7,8-HpCDD	2.52e5	1.04	NO	1.01	1.000	38.184	38.19	1.000	1.001	55.470	111	0.201	55.5
7	7 OCDD	4.61e5	0.91	NO	1.05	1.000	41.208	41.22	1.000	1.000	104.33	104	0.212	104
8	8 2,3,7,8-TCDF	1.19e5	0.80	NO	0.915	1.000	24.817	24.81	1.001	1.001	10.876	109	0.0390	10.9
9	9 1,2,3,7,8-PeCDF	5.58e5	1.55	NO	0.959	1.000	29.635	29.63	1.001	1.001	53.583	107	0.0901	53.6
10	10 2,3,4,7,8-PeCDF	6.50e5	1.53	NO	1.00	1.000	30.667	30.65	1.001	1.000	60.478	121	0.0822	60.5
11	11 1,2,3,4,7,8-HxCDF	4.39e5	1.22	NO	1.04	1.000	33.486	33.50	1.000	1.000	56.277	113	0.116	56.3
12	12 1,2,3,6,7,8-HxCDF	4.83e5	1.22	NO	1.01	1.000	33.614	33.63	1.000	1.001	58.225	116	0.120	58.2
13	13 2,3,4,6,7,8-HxCDF	4.58e5	1.23	NO	1.09	1.000	34.213	34.19	1.001	1.000	53.808	108	0.121	53.8
14	14 1,2,3,7,8,9-HxCDF	3.65e5	1.23	NO	1.03	1.000	35.052	35.06	1.000	1.000	54.692	109	0.173	54.7
15	15 1,2,3,4,6,7,8-HpCDF	3.38e5	1.03	NO	1.05	1.000	36.793	36.78	1.001	1.001	55.962	112	0.171	56.0
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.01	NO	1.21	1.000	38.801	38.81	1.000	1.000	55.091	110	0.218	55.1
17	17 OCDF	5.30e5	0.88	NO	0.947	1.000	41.389	41.40	1.000	1.000	107.93	108	0.154	108
18	18 13C-2,3,7,8-TCDD	8.98e5	0.78	NO	1.18	1.000	25.781	25.75	1.029	1.027	94.504	94.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	7.45e5	0.64	NO	0.864	1.000	30.974	30.96	1.236	1.235	107.38	107	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	1.26	NO	0.754	1.000	34.341	34.34	1.014	1.014	85.136	85.1	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	6.77e5	1.26	NO	0.925	1.000	34.449	34.45	1.017	1.017	86.121	86.1	0.164	
22	22 13C-1,2,3,7,8,9-HxCDD	6.09e5	1.27	NO	0.829	1.000	34.710	34.71	1.025	1.025	86.383	86.4	0.183	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.51e5	1.04	NO	0.598	1.000	38.158	38.17	1.127	1.127	88.689	88.7	0.205	
24	24 13C-OCDD	8.40e5	0.87	NO	0.571	1.000	41.298	41.21	1.219	1.217	173.12	86.6	0.205	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.78	NO	1.09	1.000	24.801	24.79	0.990	0.989	86.829	86.8	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.58	NO	0.876	1.000	29.643	29.61	1.183	1.182	98.396	98.4	0.243	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.60	NO	0.844	1.000	30.655	30.64	1.223	1.222	100.81	101	0.253	
28	28 13C-1,2,3,4,7,8-HxCDF	7.52e5	0.52	NO	1.00	1.000	33.491	33.49	0.989	0.989	88.441	88.4	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.53	NO	1.12	1.000	33.599	33.60	0.992	0.992	86.171	86.2	0.204	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	1.000	34.178	34.18	1.009	1.009	88.698	88.7	0.220	
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e5	0.50	NO	0.873	1.000	35.049	35.05	1.035	1.035	87.589	87.6	0.261	

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.76e5	0.45	NO	0.771	1.000	36.759	36.76	1.085	1.085	87.916	87.9	0.211	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.44	NO	0.519	1.000	38.839	38.80	1.147	1.146	88.538	88.5	0.314	
34	34 13C-OCDF	1.04e6	0.90	NO	0.696	1.000	41.477	41.39	1.225	1.222	175.32	87.7	0.183	
35	35 37Cl-2,3,7,8-TCDD	9.59e4			1.17	1.000	25.791	25.78	1.029	1.029	10.173	102	0.0234	
36	36 13C-1,2,3,4-TCDD	8.02e5	0.79	NO	1.00	1.000	25.050	25.06	1.000	1.000	100.00	100	0.126	
37	37 13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	1.000	23.190	23.19	1.000	1.000	100.00	100	0.156	
38	38 13C-1,2,3,4,6,9-HxCDF	8.50e5	0.51	NO	1.00	1.000	33.880	33.87	1.000	1.000	100.00	100	0.228	

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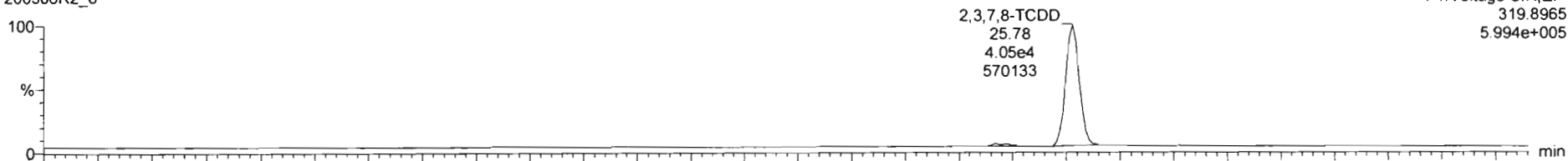
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

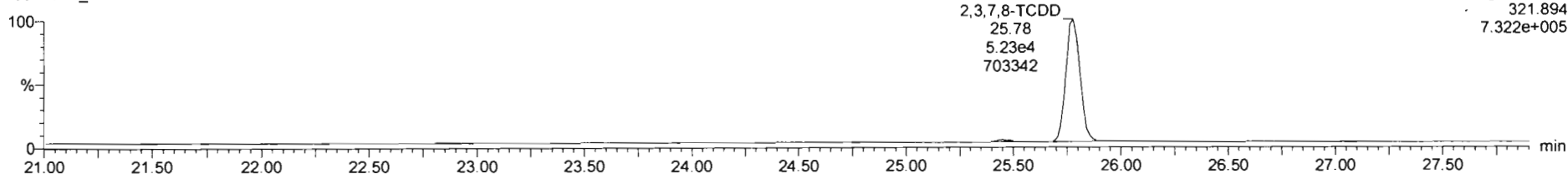
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2,3,7,8-TCDD

200306R2_8

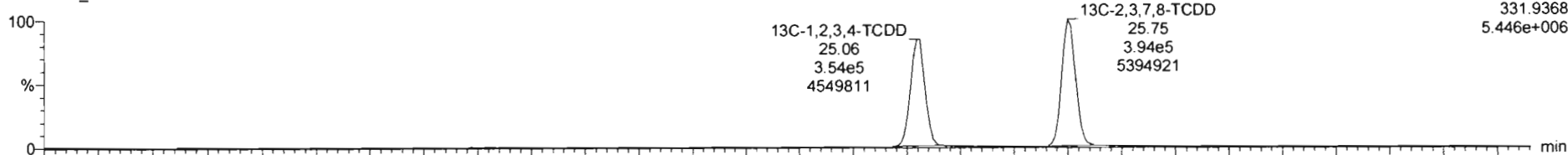


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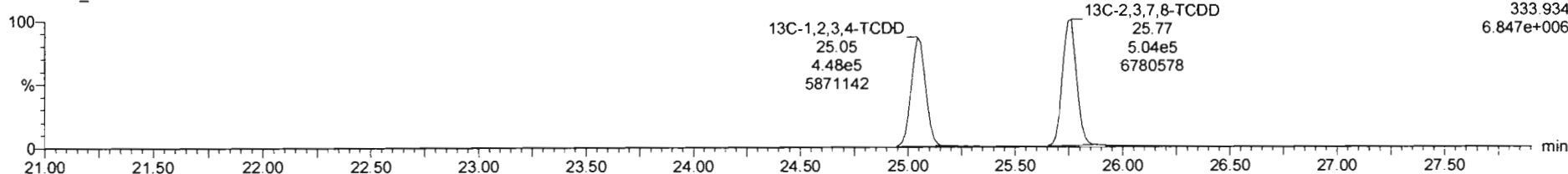


13C-2,3,7,8-TCDD

200306R2_8



200306R2_8



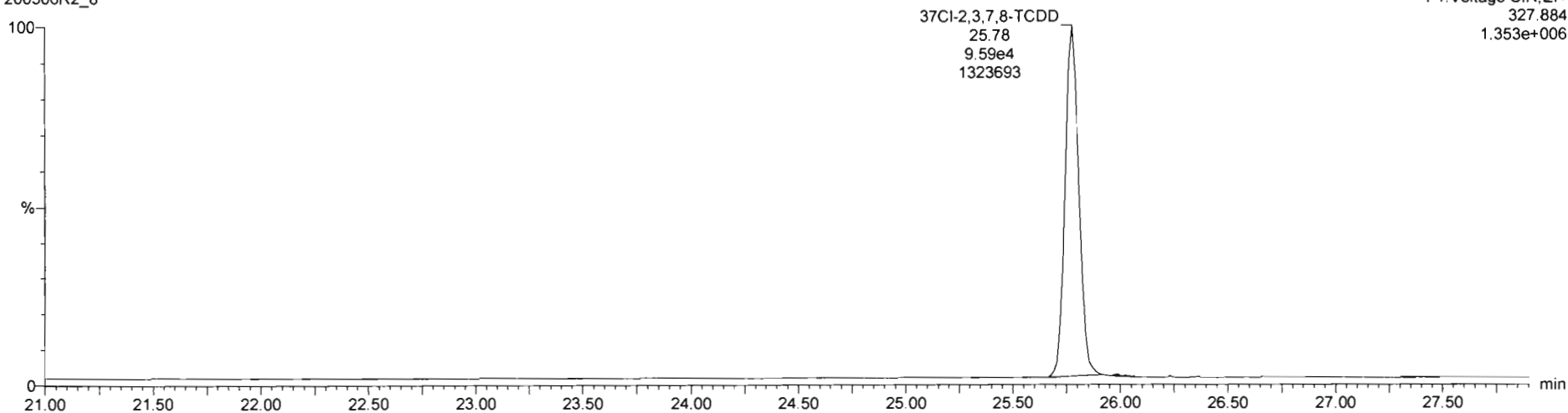
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

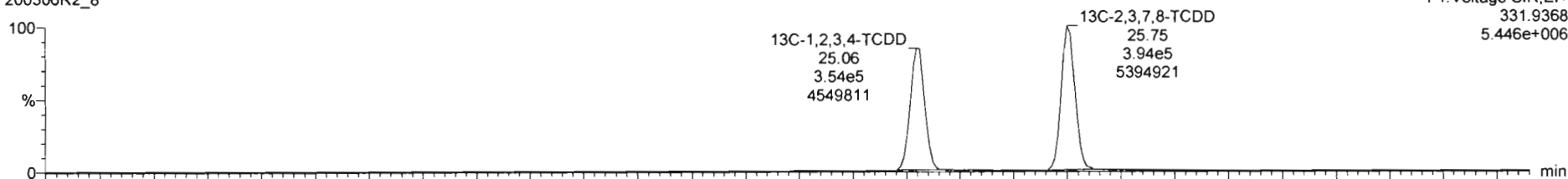
37Cl-2,3,7,8-TCDD

200306R2_8

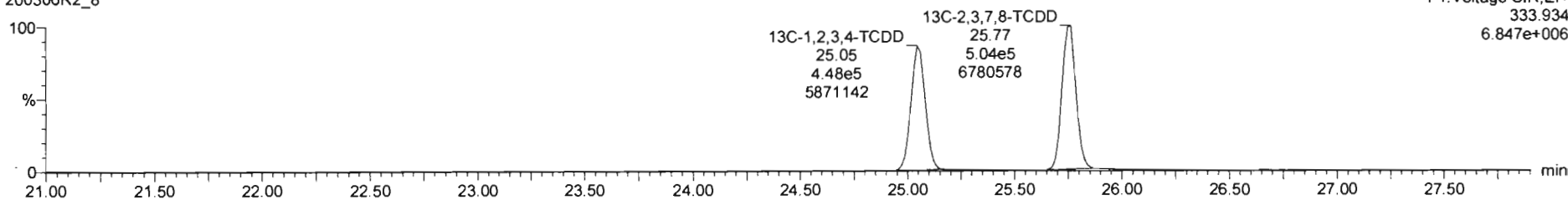


13C-1,2,3,4-TCDD

200306R2_8



200306R2_8



Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

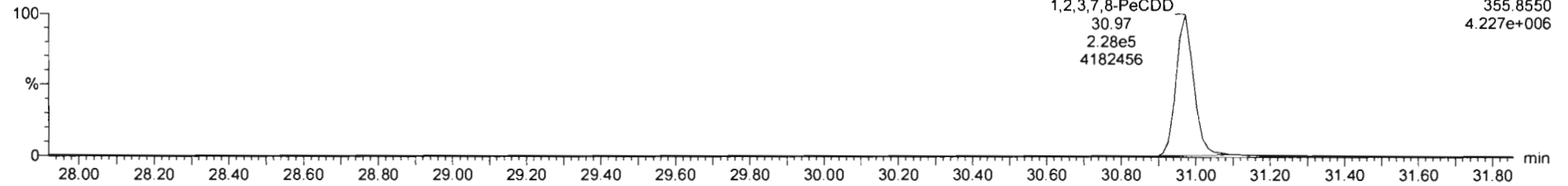
1,2,3,7,8-PeCDD

200306R2_8



F2: Voltage SIR, EI+
353.8576
2.633e+006

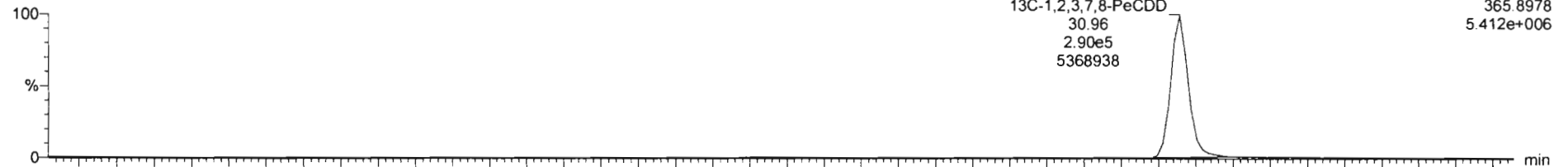
200306R2_8



F2: Voltage SIR, EI+
355.8550
4.227e+006

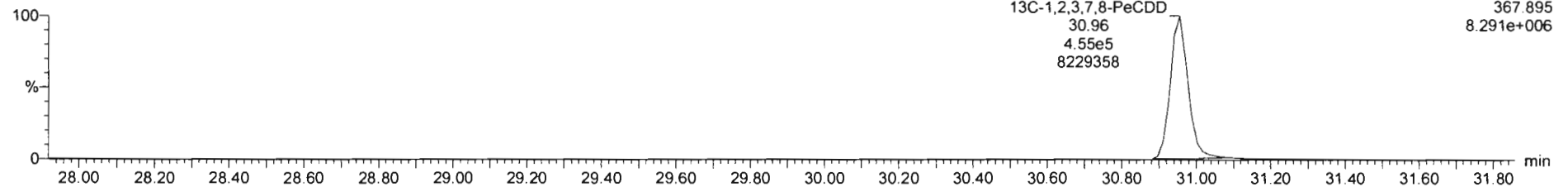
13C-1,2,3,7,8-PeCDD

200306R2_8



F2: Voltage SIR, EI+
365.8978
5.412e+006

200306R2_8



F2: Voltage SIR, EI+
367.895
8.291e+006

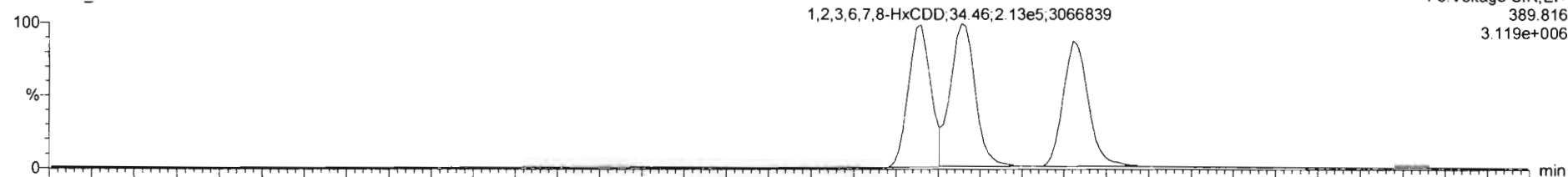
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

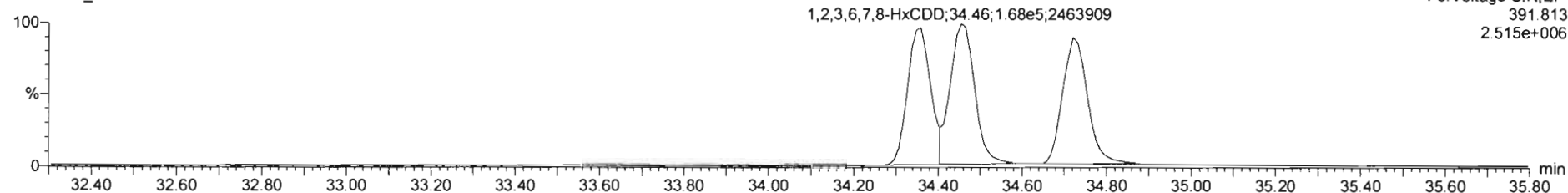
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,4,7,8-HxCDD

200306R2_8

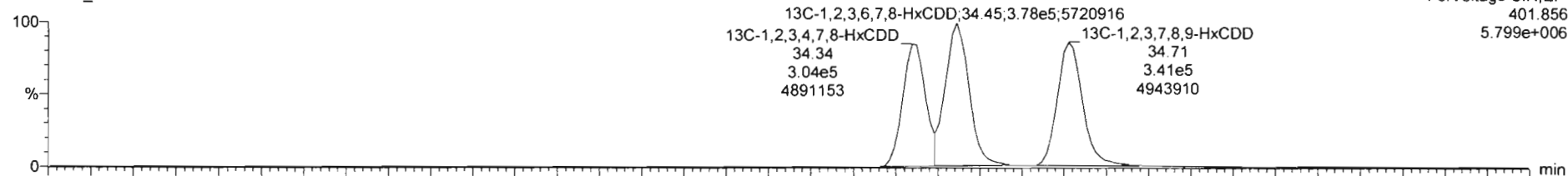


200306R2_8

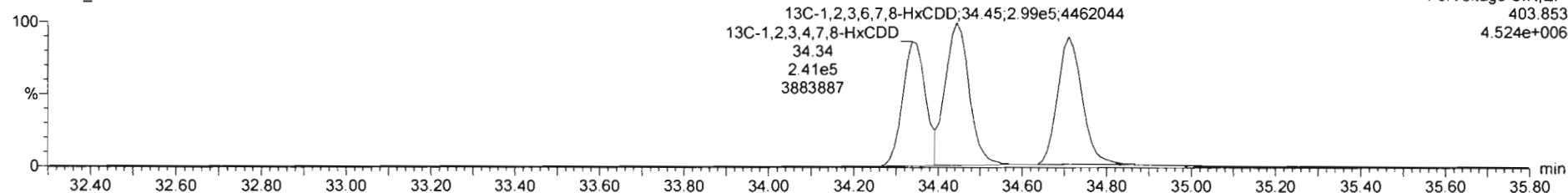


13C-1,2,3,4,7,8-HxCDD

200306R2_8



200306R2_8



Dataset: Untitled

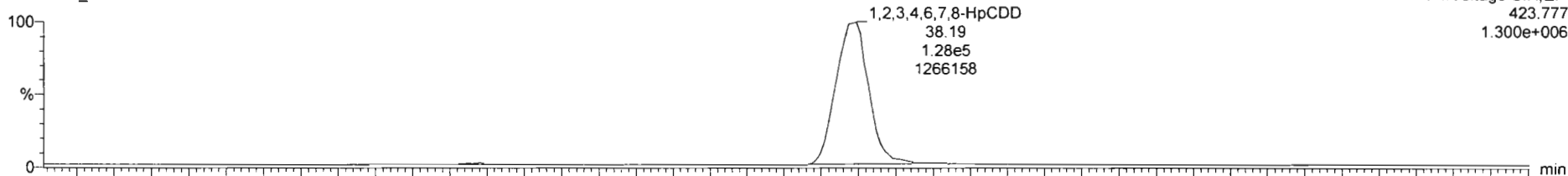
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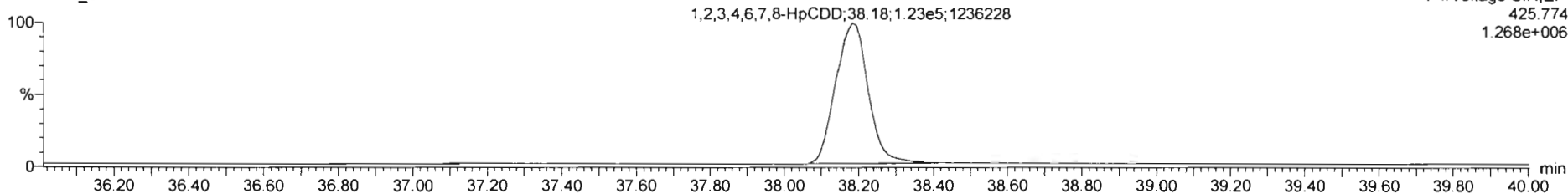
1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
423.777
1.300e+006

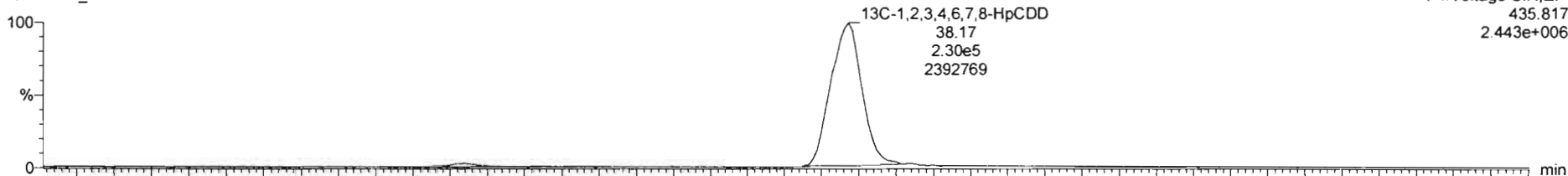
200306R2_8



F4: Voltage SIR, EI+
425.774
1.268e+006

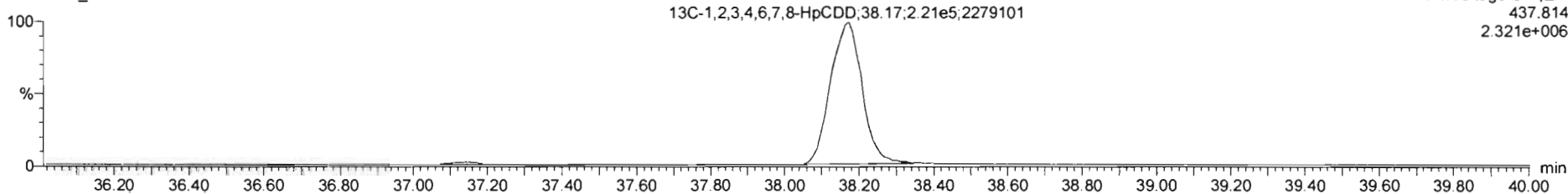
13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
435.817
2.443e+006

200306R2_8



F4: Voltage SIR, EI+
437.814
2.321e+006

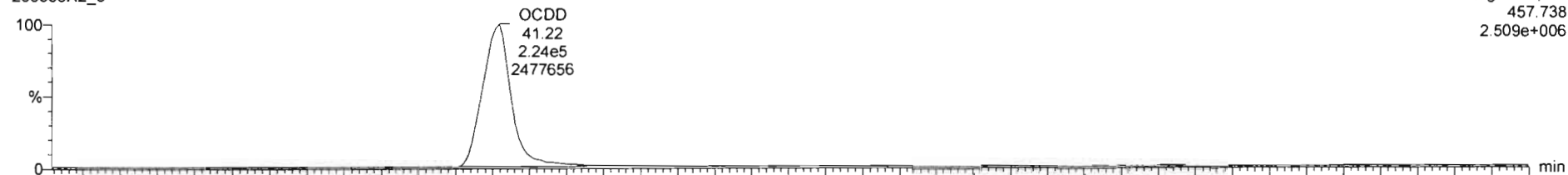
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

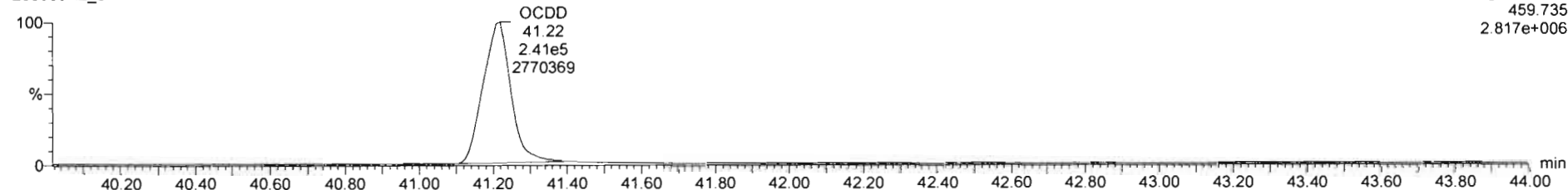
OCDD

200306R2_8



F5:Voltage SIR,EI+
457.738
2.509e+006

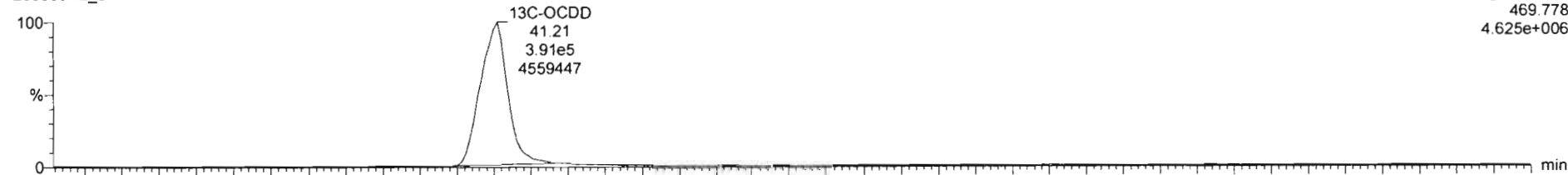
200306R2_8



F5:Voltage SIR,EI+
459.735
2.817e+006

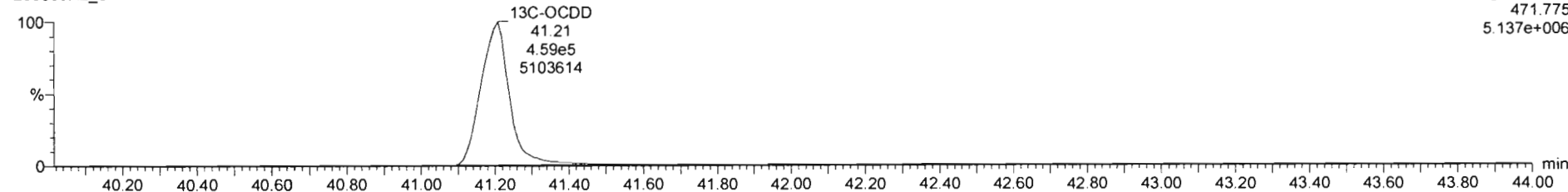
13C-OCDD

200306R2_8

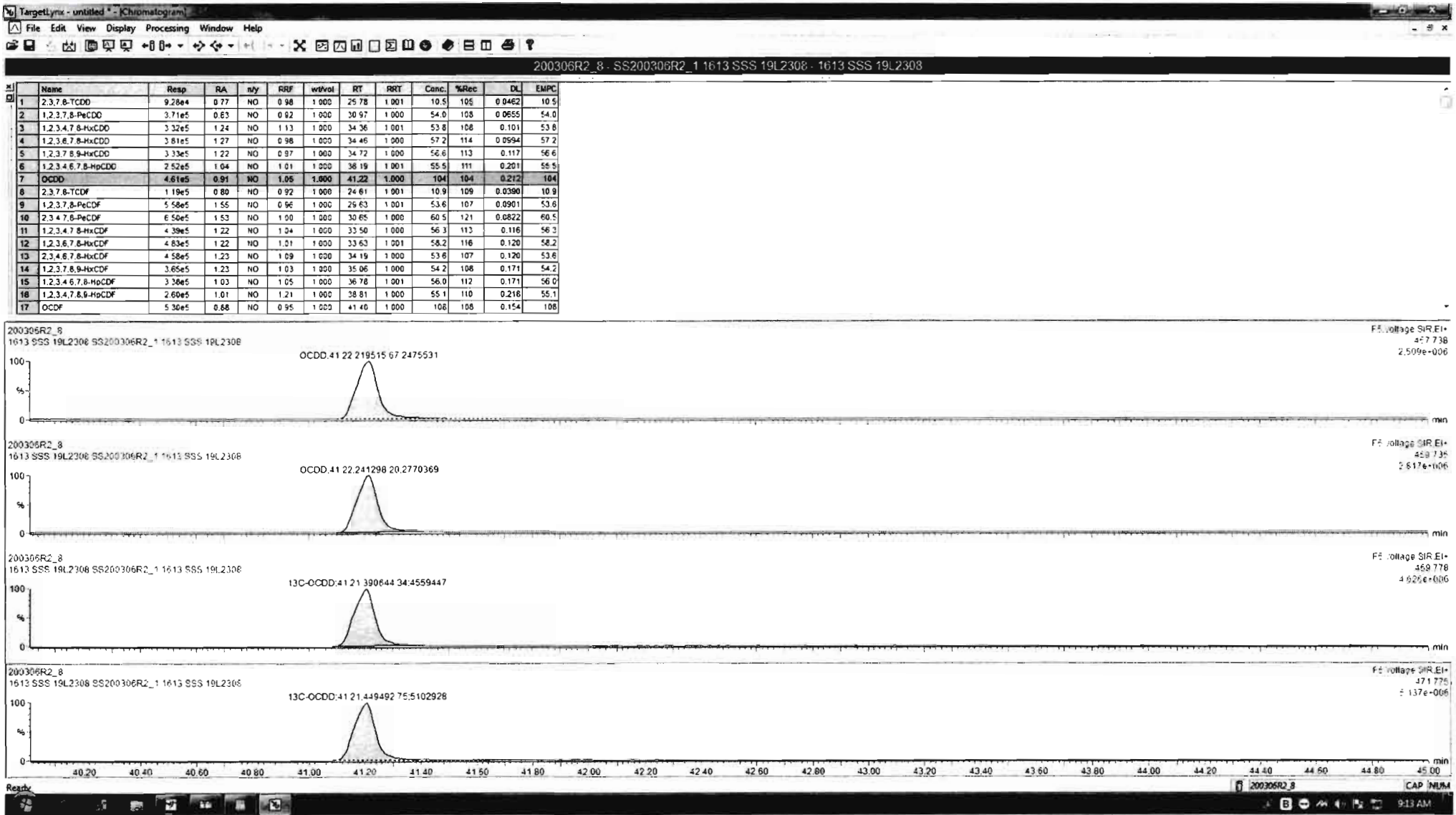


F5:Voltage SIR,EI+
469.778
4.625e+006

200306R2_8



F5:Voltage SIR,EI+
471.775
5.137e+006



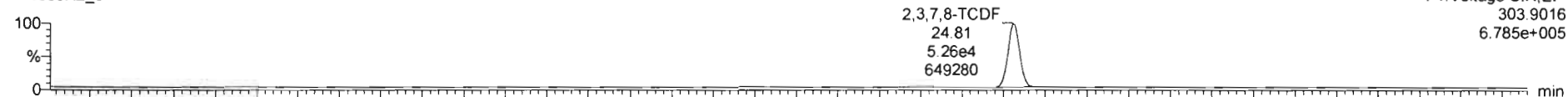
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Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

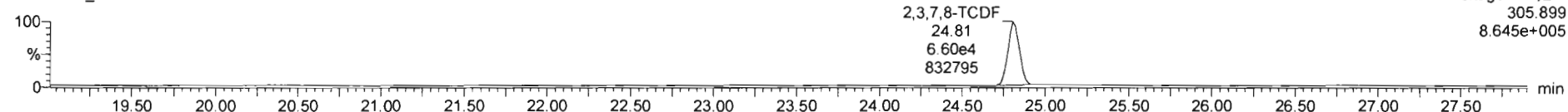
2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
303.9016
6.785e+005

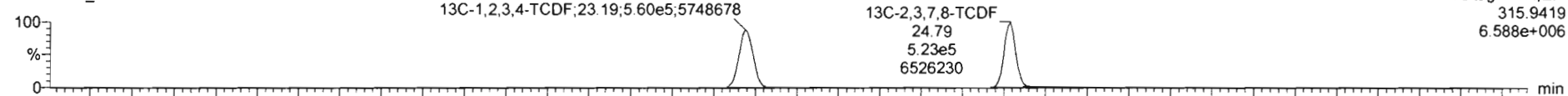
200306R2_8



F1:Voltage SIR,EI+
305.899
8.645e+005

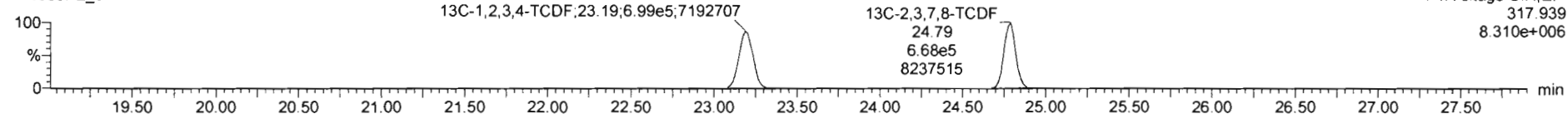
13C-2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
315.9419
6.588e+006

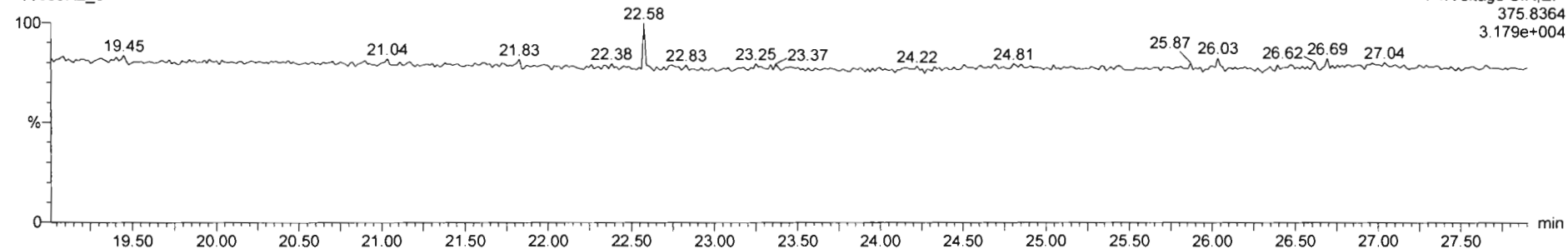
200306R2_8



F1:Voltage SIR,EI+
317.939
8.310e+006

DPE1

200306R2_8



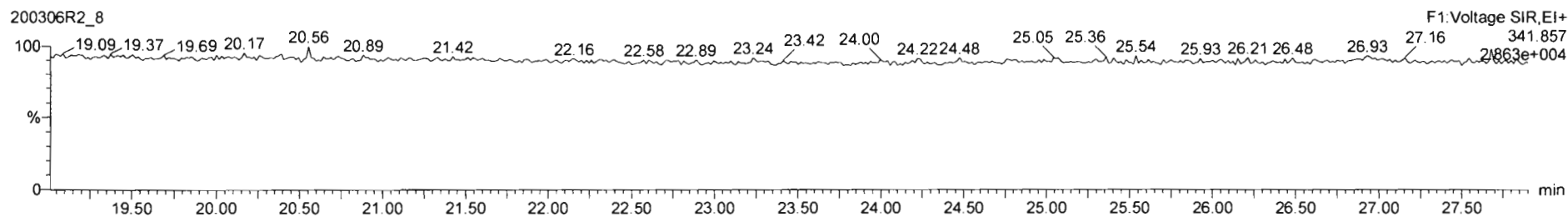
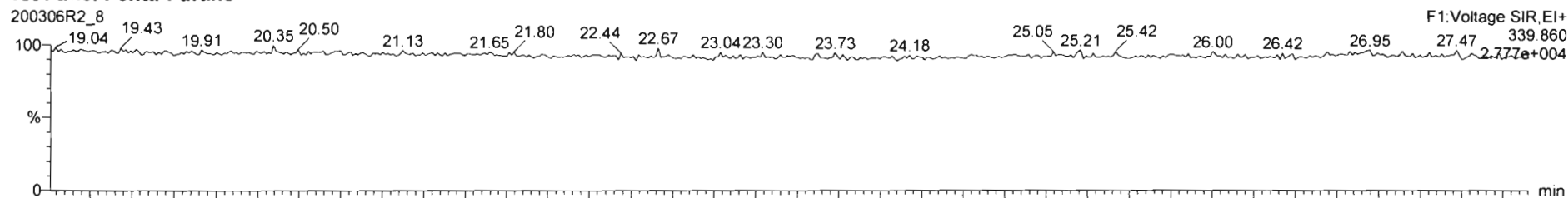
F1:Voltage SIR,EI+
375.8364
3.179e+004

Dataset: Untitled

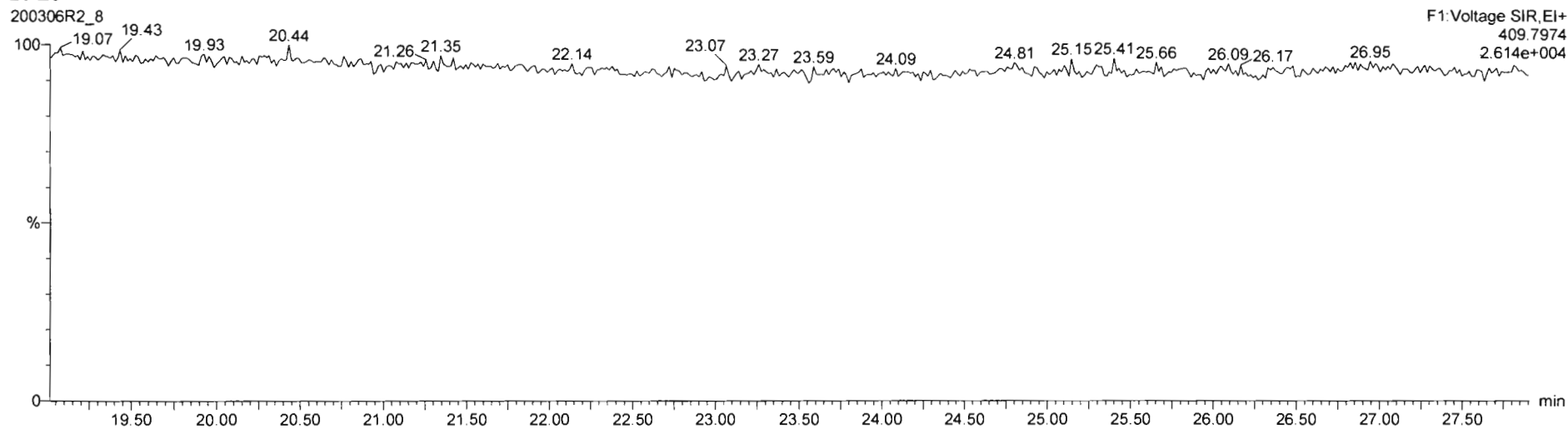
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



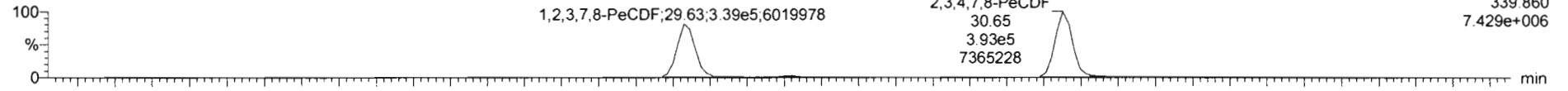
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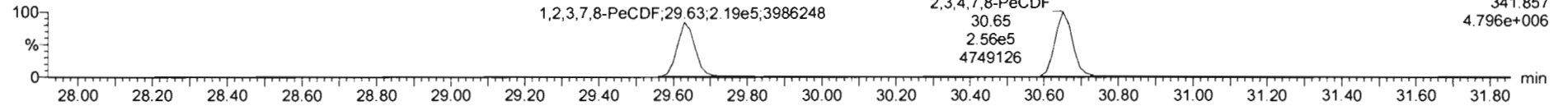
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1,2,3,7,8-PeCDF

200306R2_8

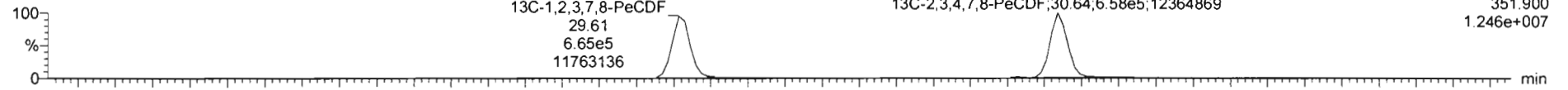


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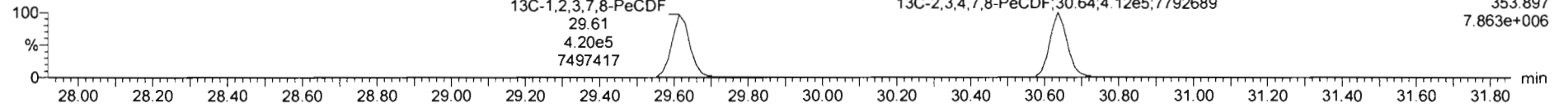


13C-1,2,3,7,8-PeCDF

200306R2_8

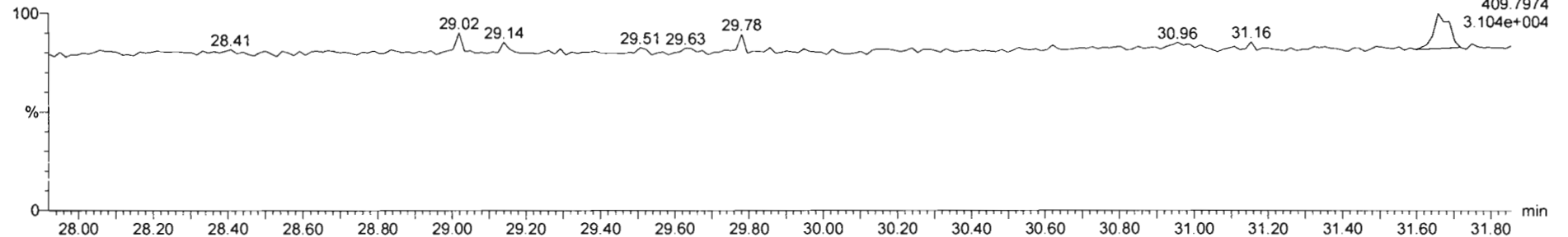


200306R2_8



DPE2

200306R2_8



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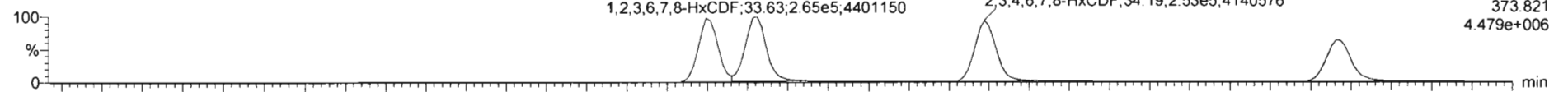
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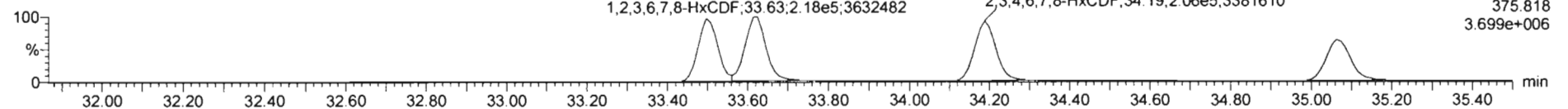
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1,2,3,4,7,8-HxCDF

200306R2_8

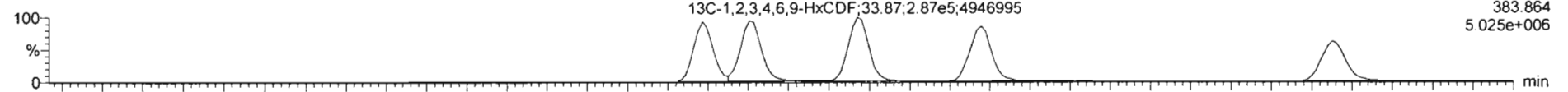


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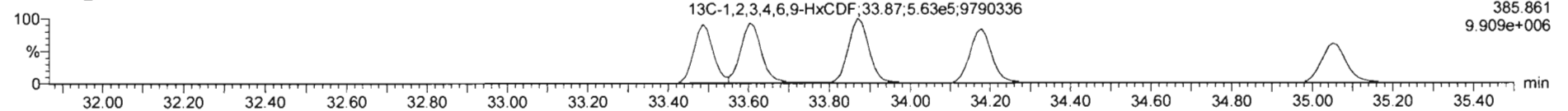


13C-1,2,3,4,7,8-HxCDF

200306R2_8

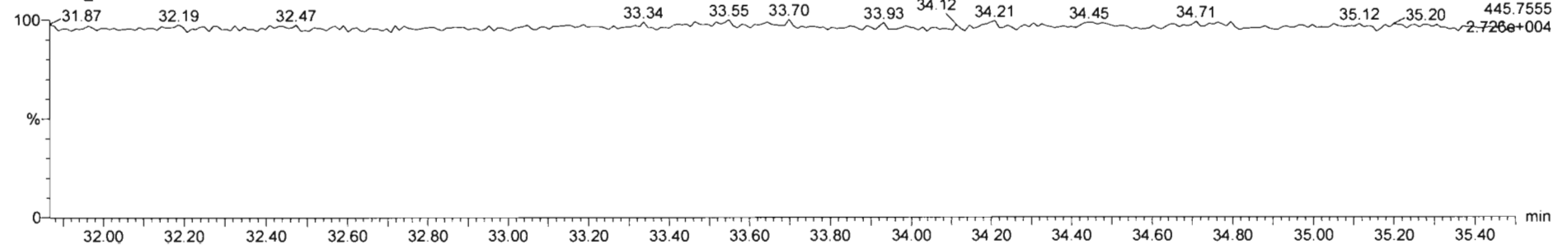


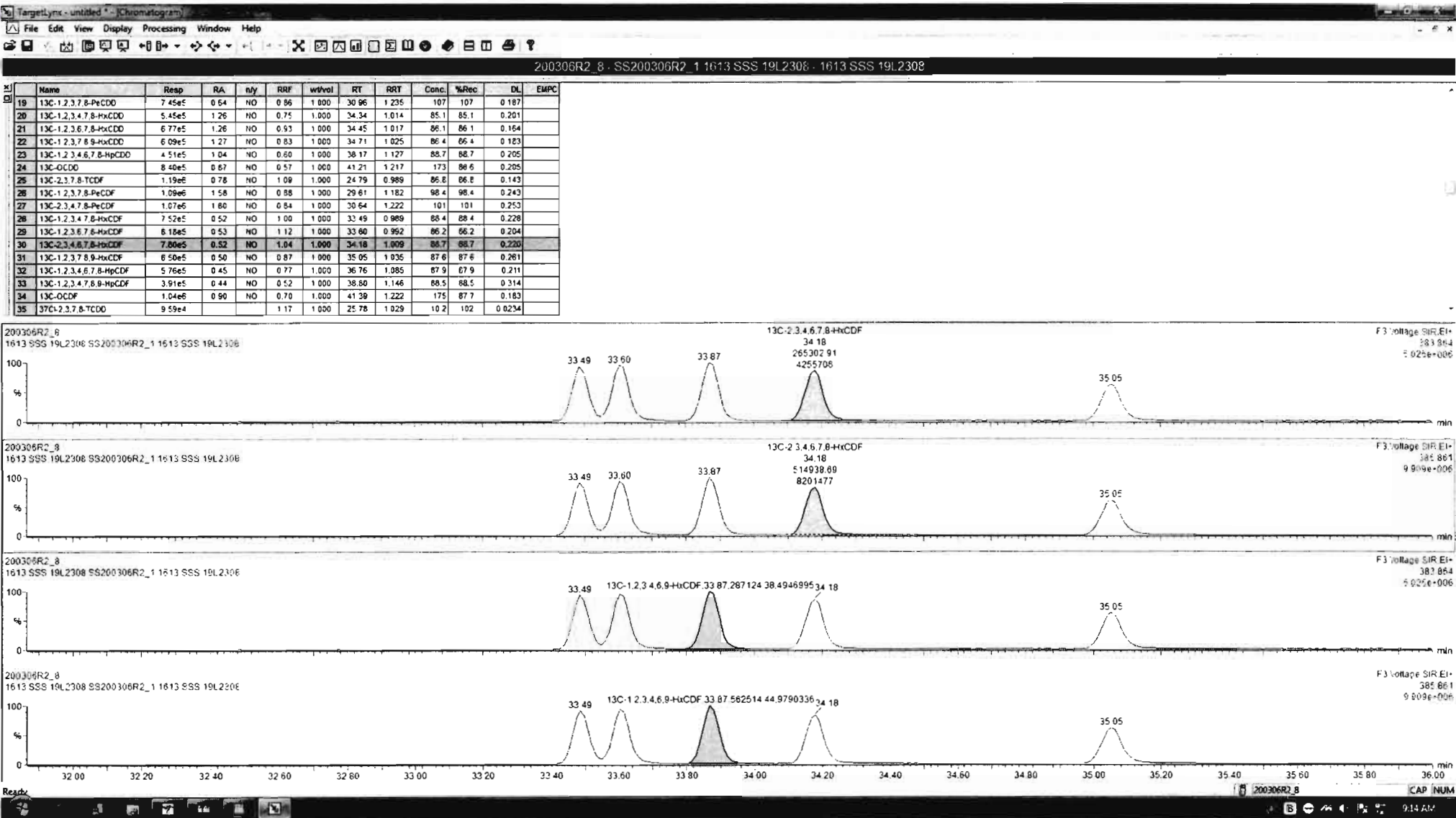
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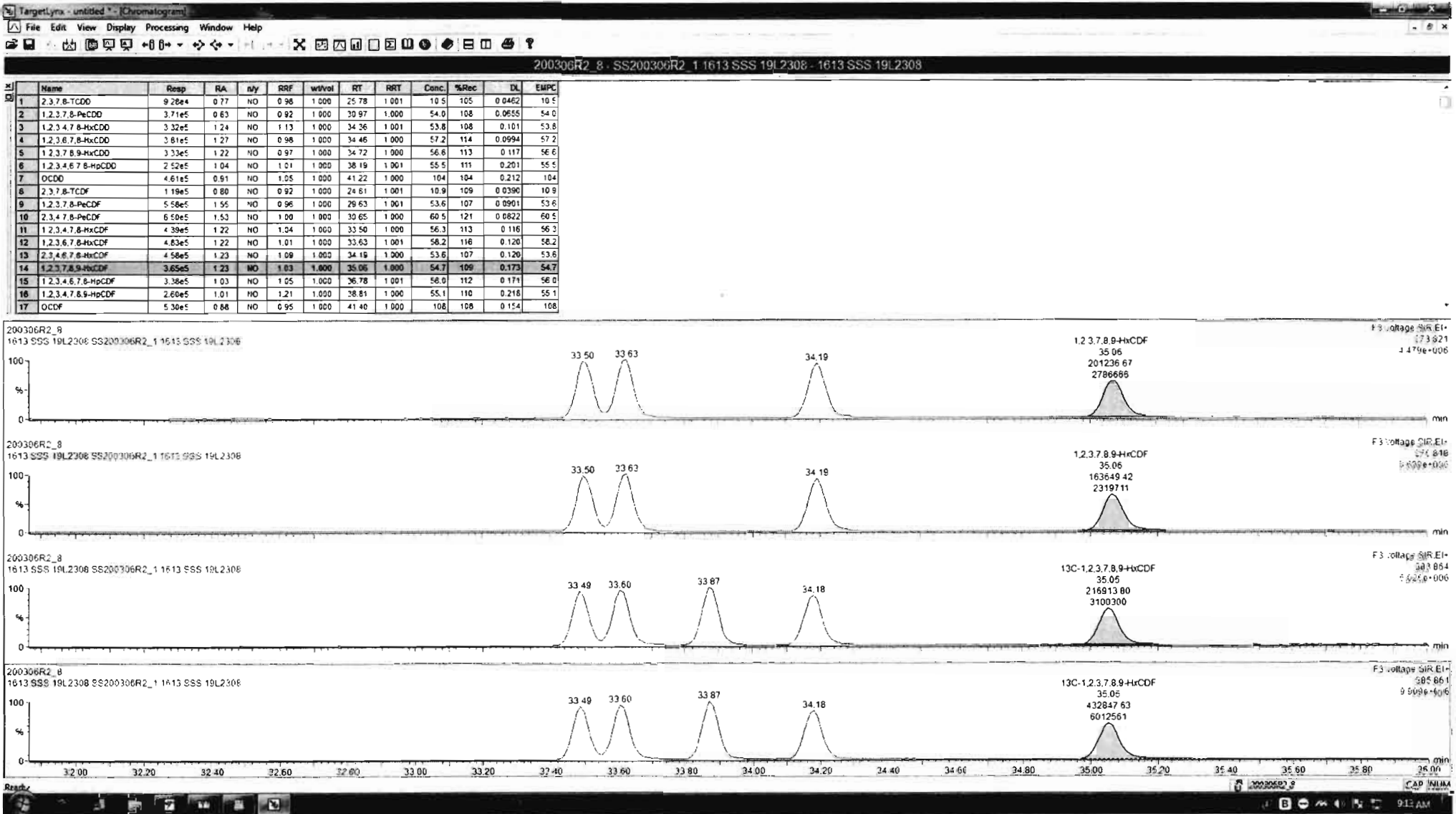


DPE3

200306R2_8







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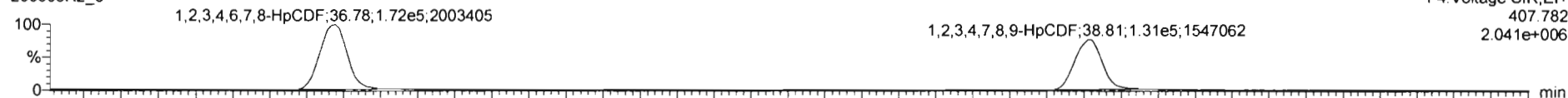
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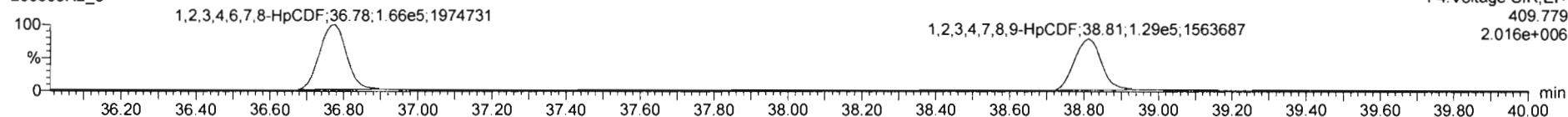
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1,2,3,4,6,7,8-HpCDF

200306R2_8

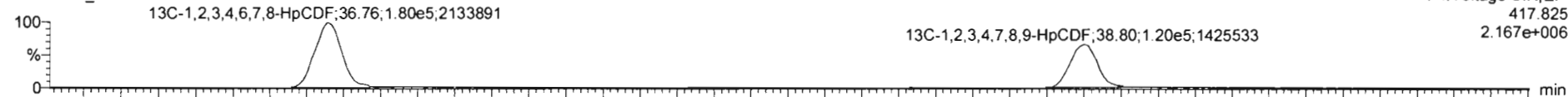


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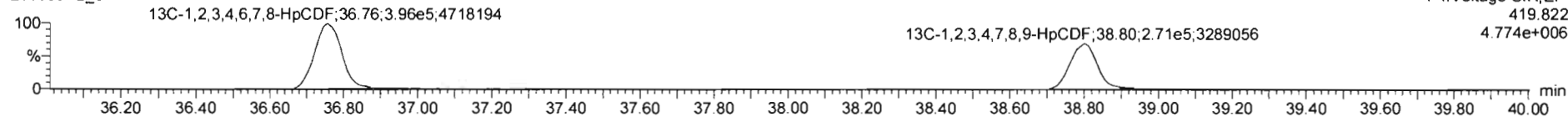


13C-1,2,3,4,6,7,8-HpCDF

200306R2_8

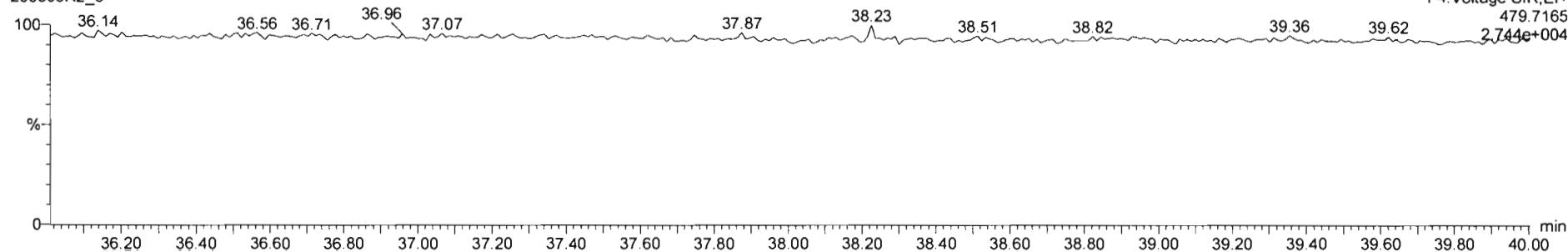


200306R2_8



DPE4

200306R2_8



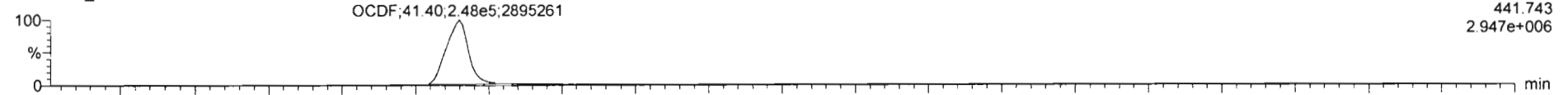
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

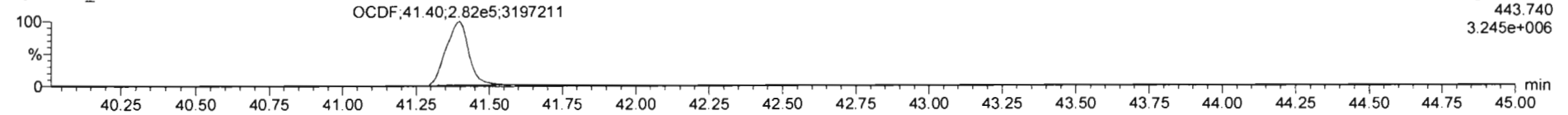
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OCDF

200306R2_8

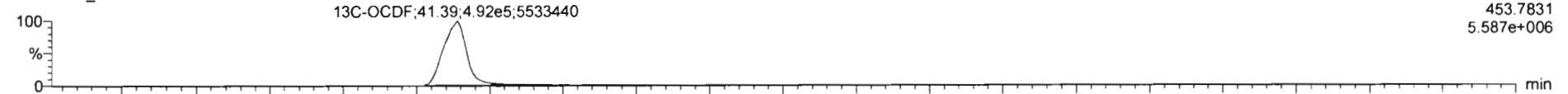


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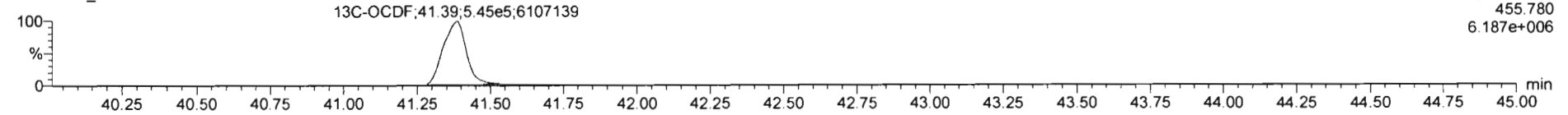


13C-OCDF

200306R2_8

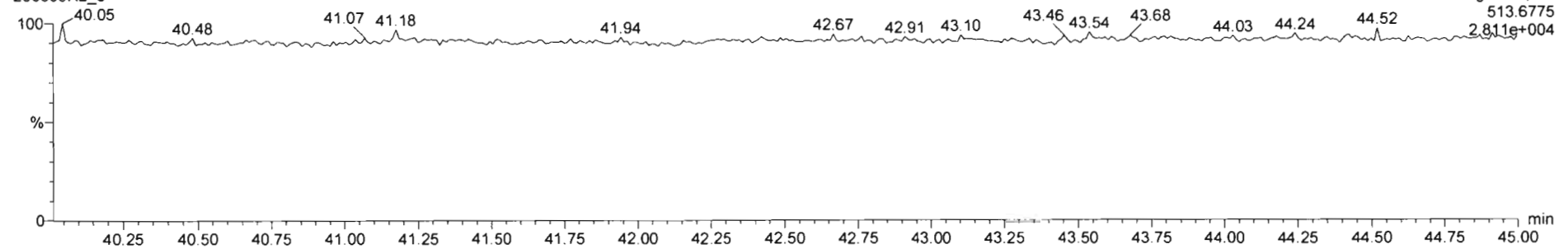


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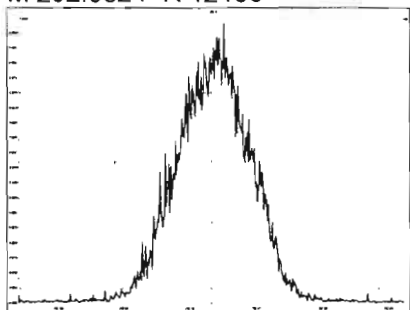
DPE5

200306R2_8

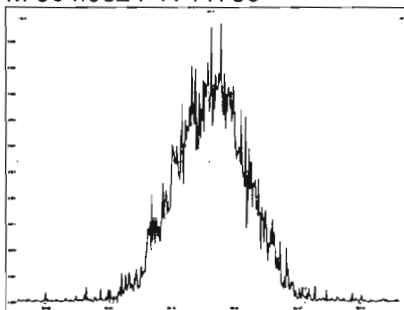


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

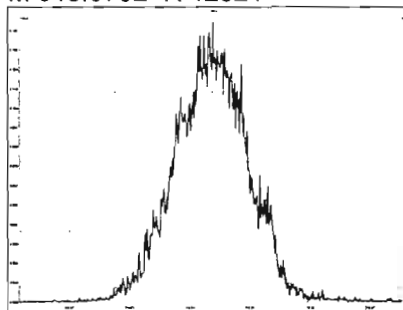
M 292.9824 R 12106



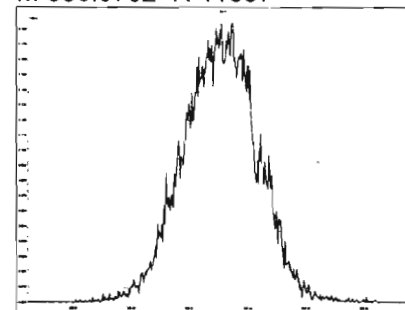
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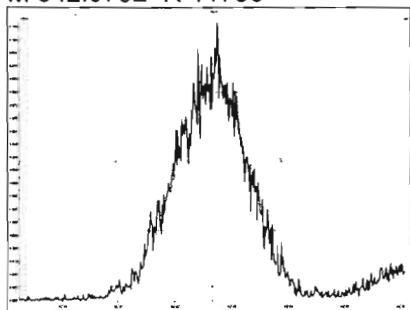
M 318.9792 R 12021



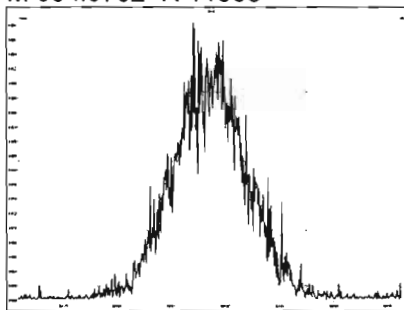
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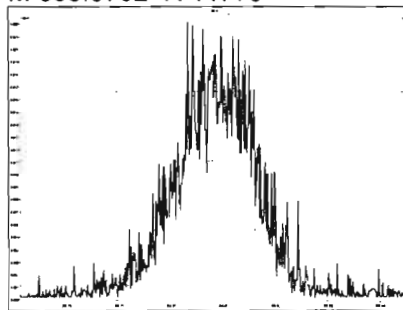
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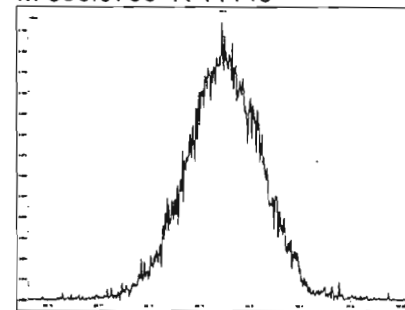
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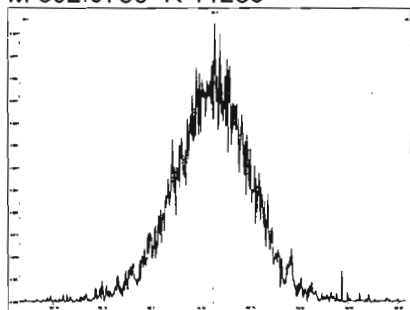
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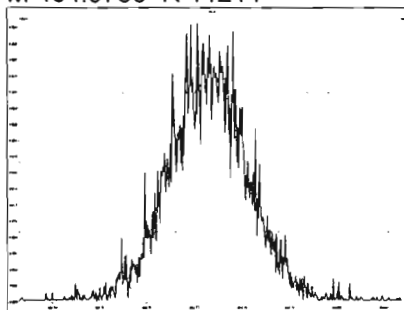
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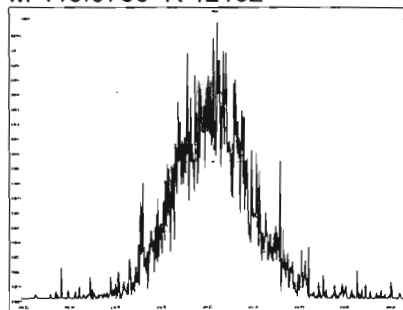
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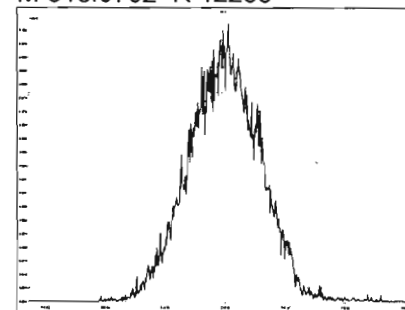
M 404.9760 R 11211



M 416.9760 R 12132

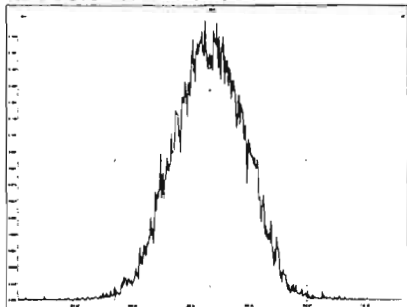


M 318.9792 R 12255

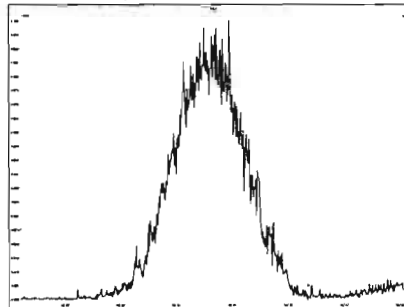


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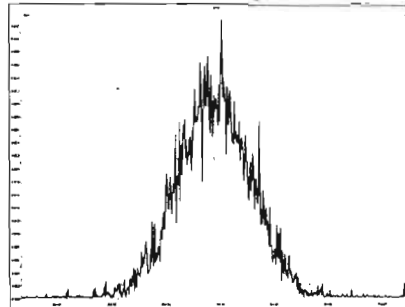
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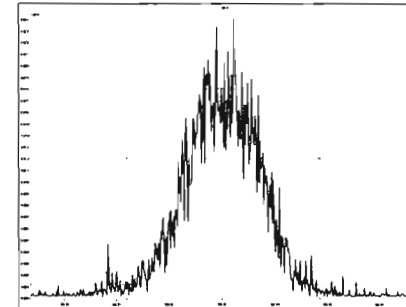
M 342.9792 R 12145



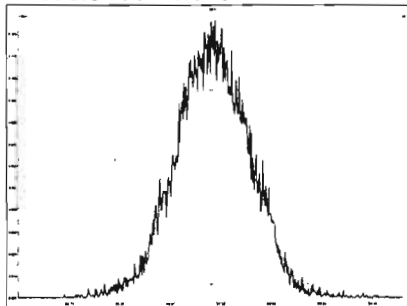
M 354.9792 R 11933



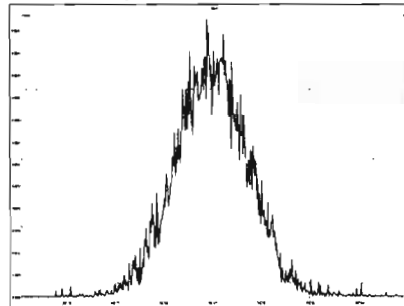
M 366.9792 R 12572



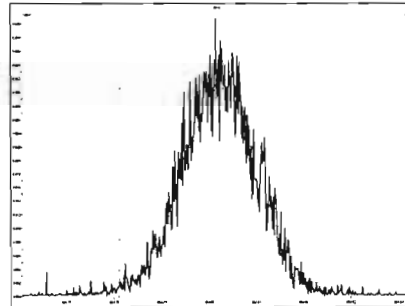
M 380.9760 R 11600



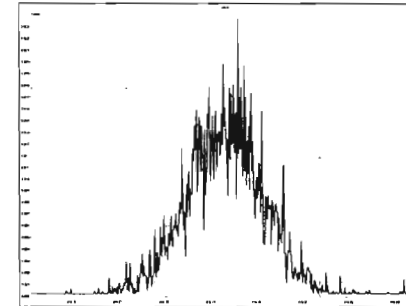
M 392.9760 R 12100



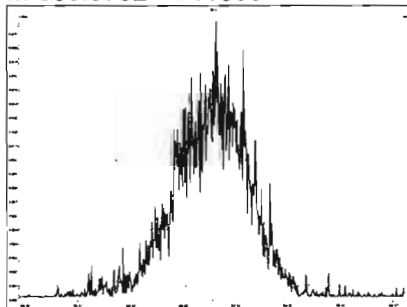
M 404.9760 R 11764



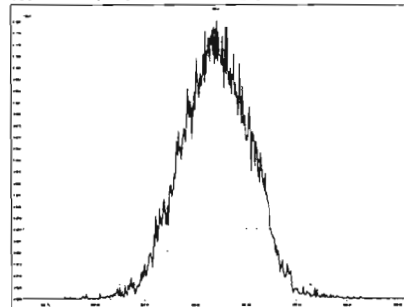
M 416.9760 R 11968



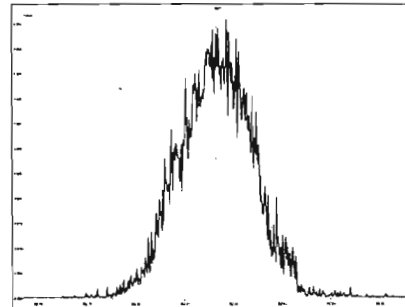
M 366.9792 R 11669



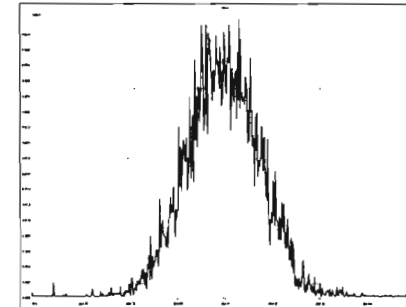
M 380.9760 R 12285



M 392.9760 R 12090

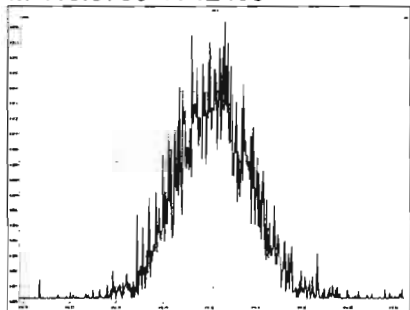


M 404.9760 R 12490

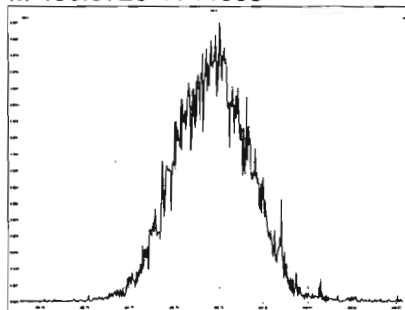


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

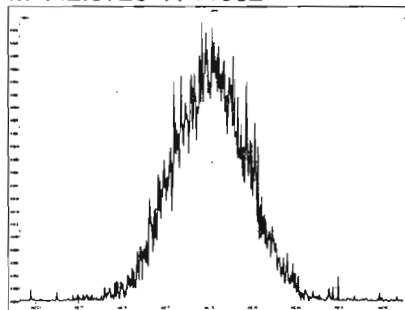
M 416.9760 R 12438



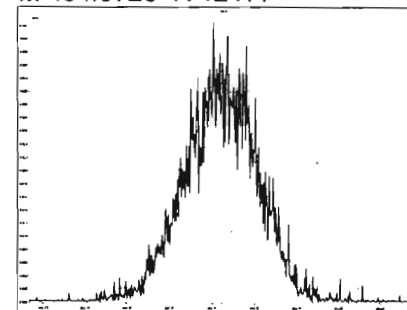
M 430.9728 R 11993



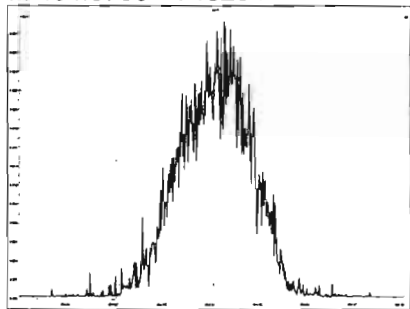
M 442.9728 R 11962



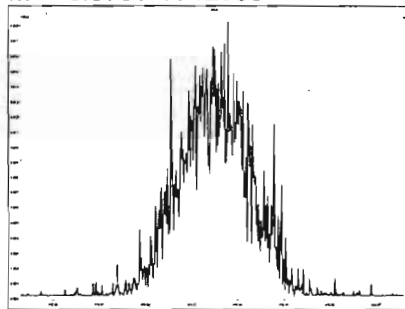
M 454.9728 R 12177



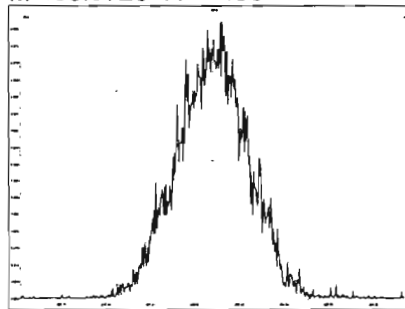
M 404.9760 R 13264



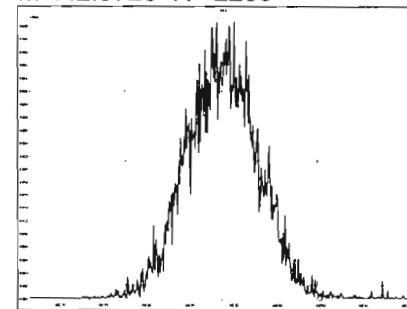
M 416.9760 R 12953



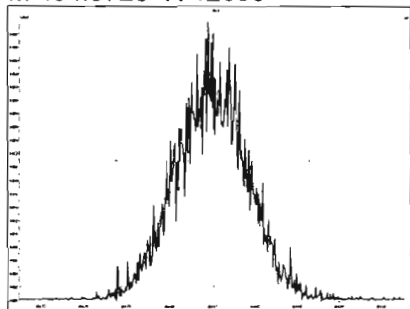
M 430.9728 R 12468



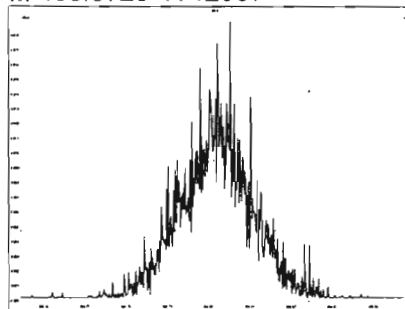
M 442.9728 R 12290



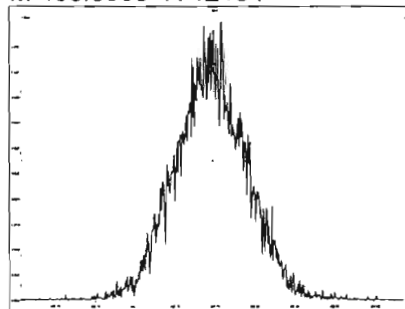
M 454.9728 R 12565



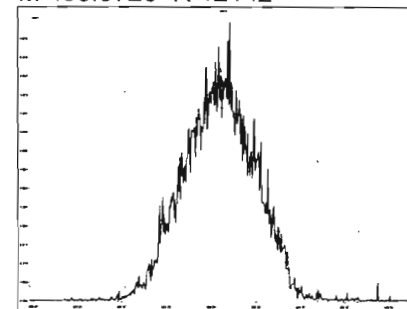
M 466.9728 R 12957



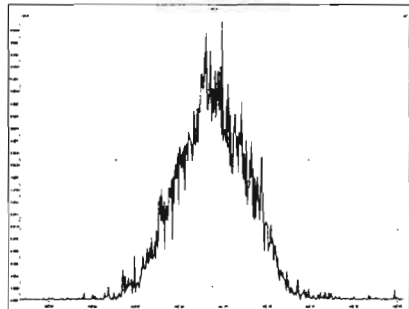
M 480.9696 R 12154



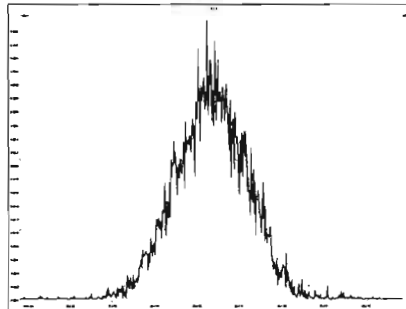
M 430.9728 R 12142



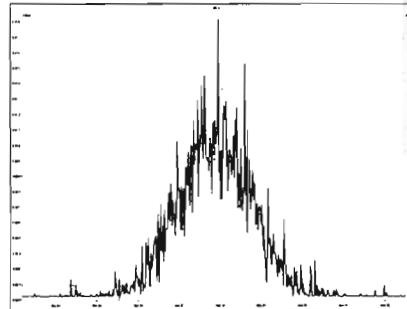
M 442.9728 R 12853



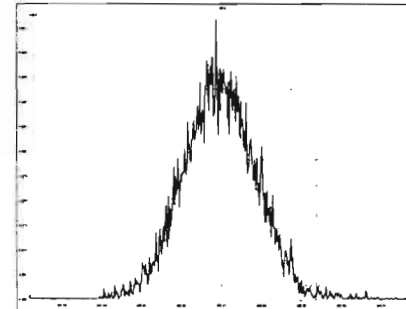
M 454.9728 R 12213



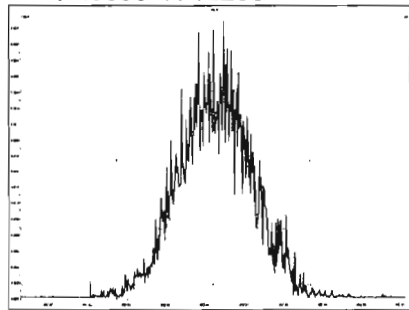
M 466.9728 R 12501



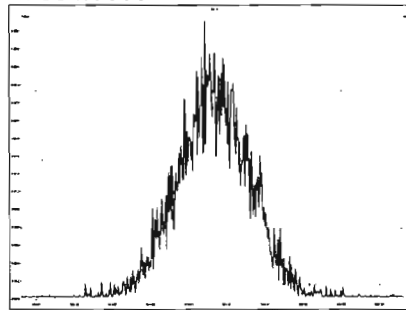
M 480.9696 R 12255



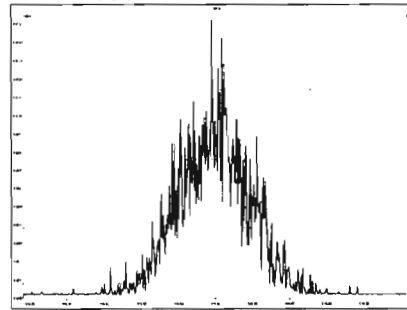
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 01 02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Compound name: 2,3,7,8-TCDF

Response Factor: 0.9819
RRF SD: 0.0791981, Relative SD: 8.06581
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271
RRF SD: 0.0939058, Relative SD: 8.67318
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

#	Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

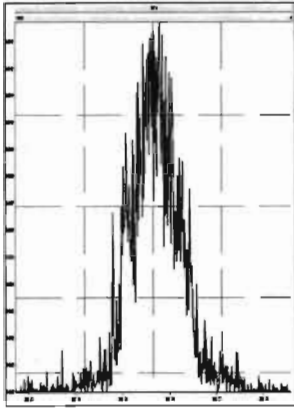
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

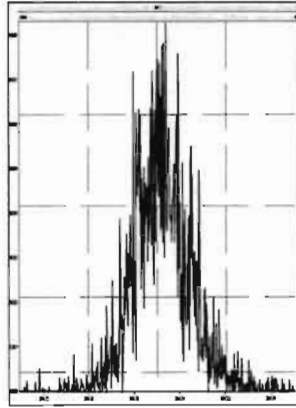
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

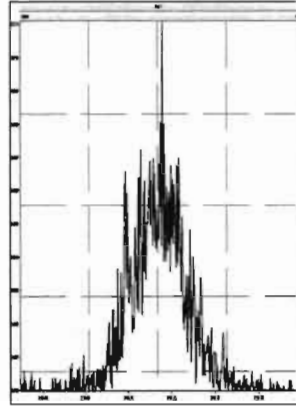
M 292.9824 R 14754



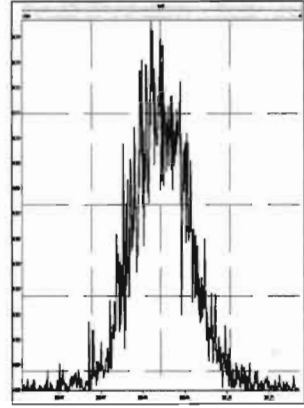
M 304.9824 R 15978



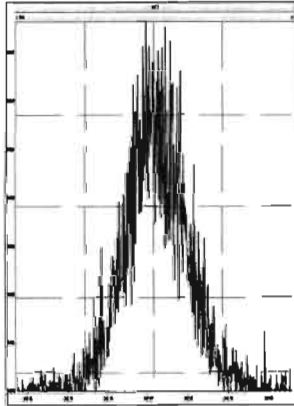
M 318.9792 R 15503



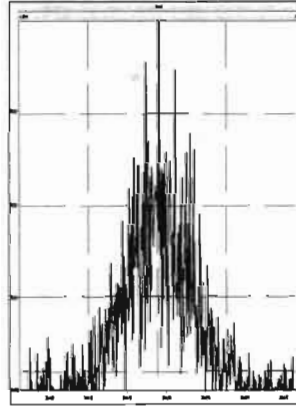
M 330.9792 R 11737



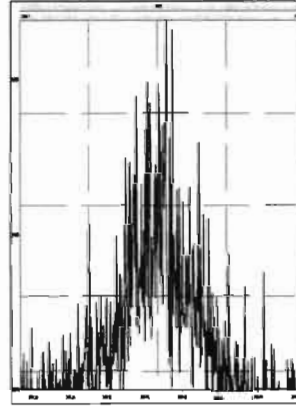
M 342.9792 R 11796



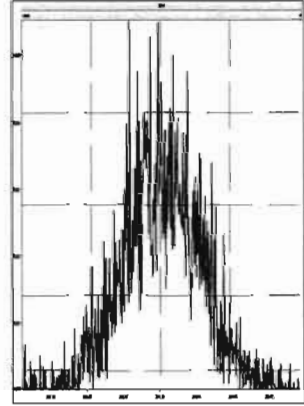
M 354.9792 R 15966

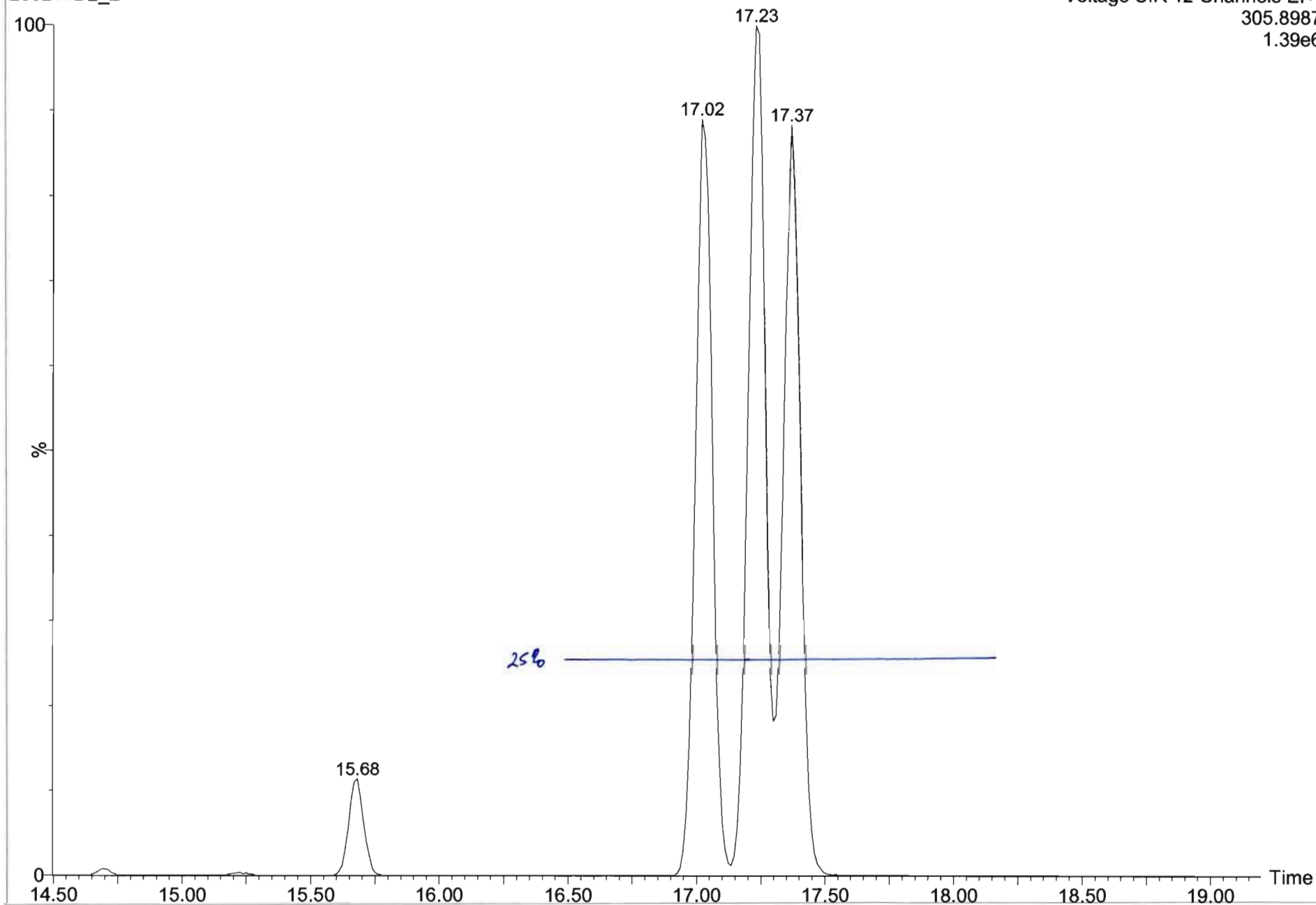


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

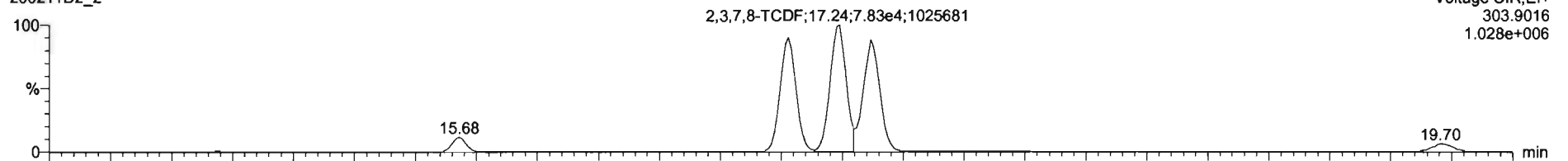
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

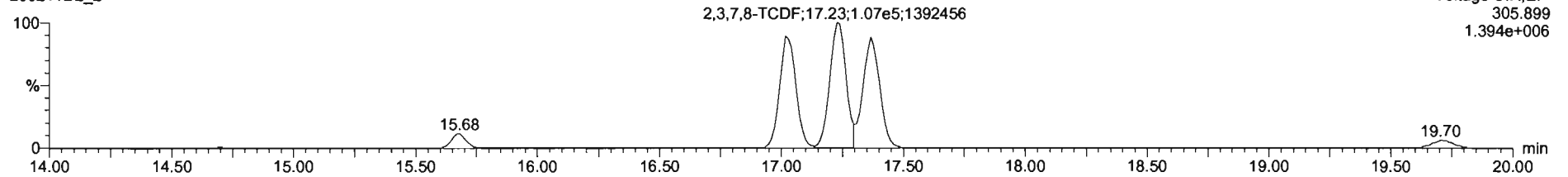
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2,3,7,8-TCDF

200211D2_2

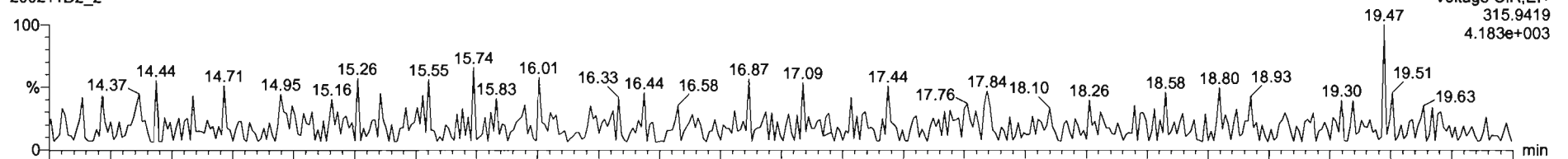


200211D2_2

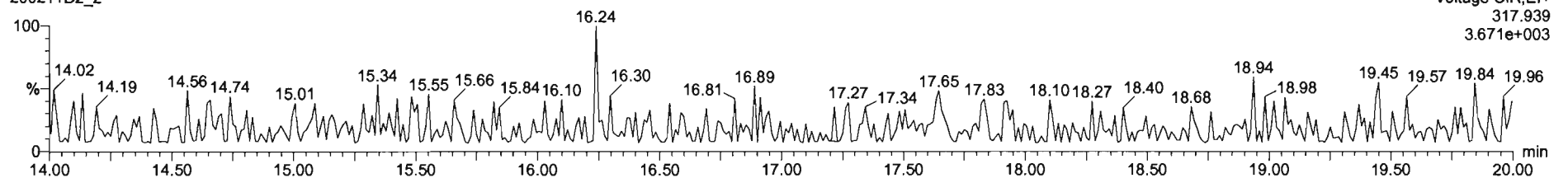


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

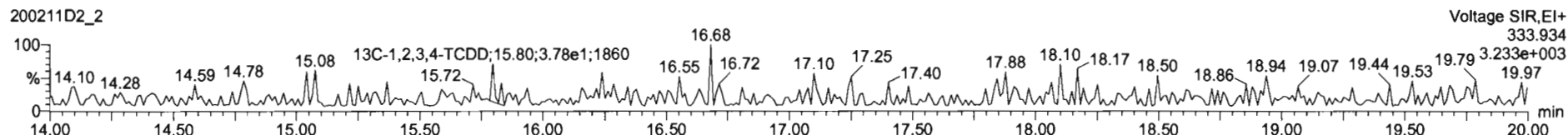
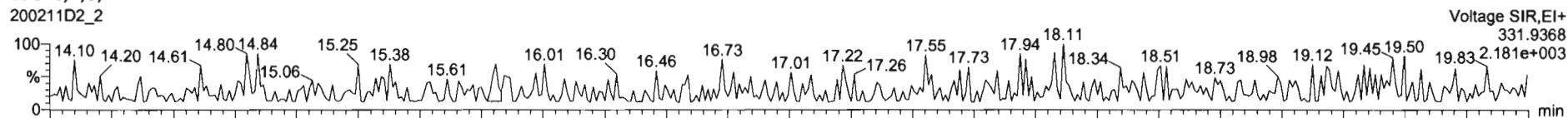


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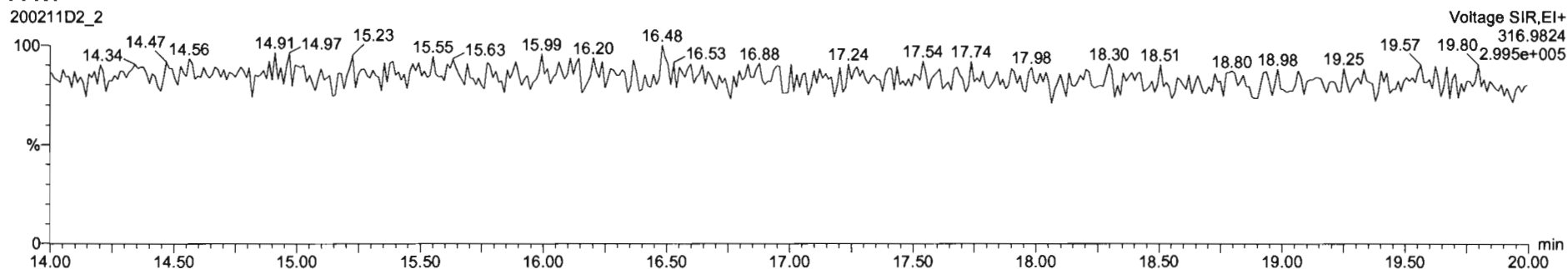
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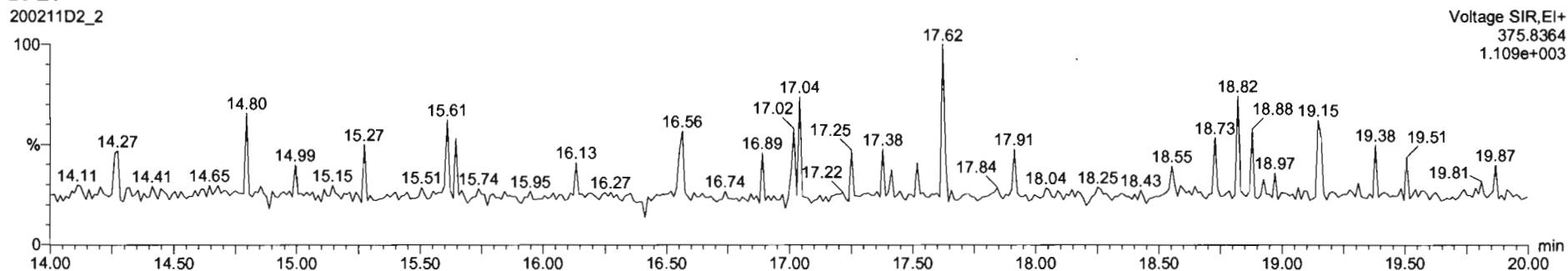
13C-1,2,3,4-TCDD



PFK1



DPE1



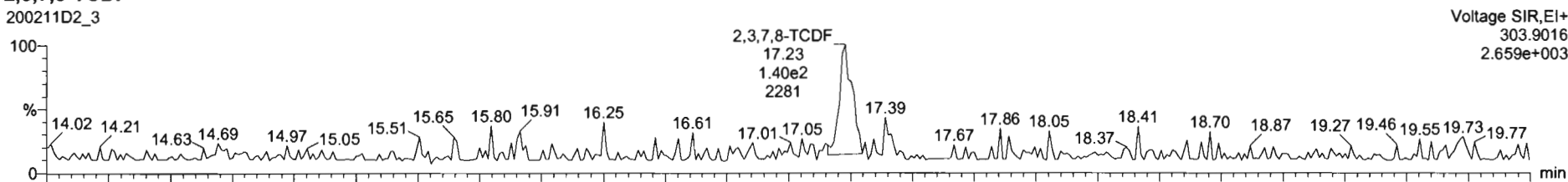
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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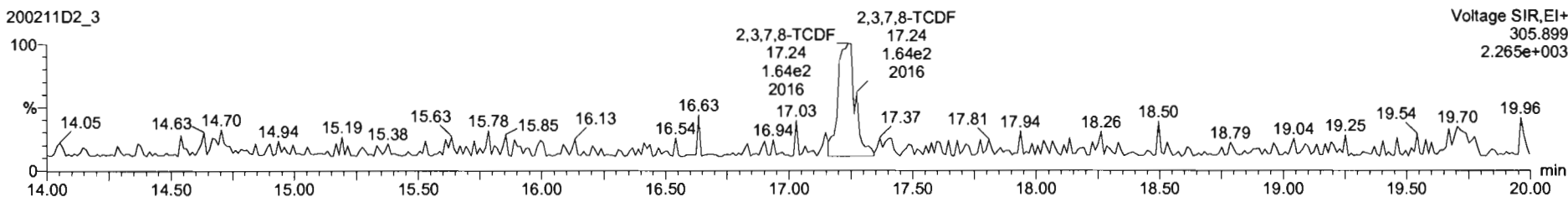
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

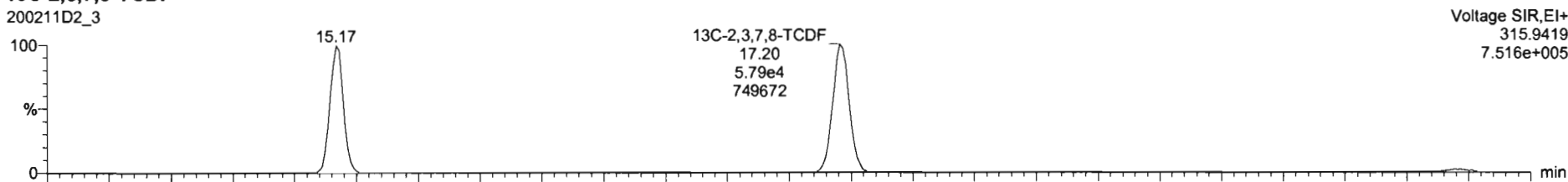
2,3,7,8-TCDF
200211D2_3



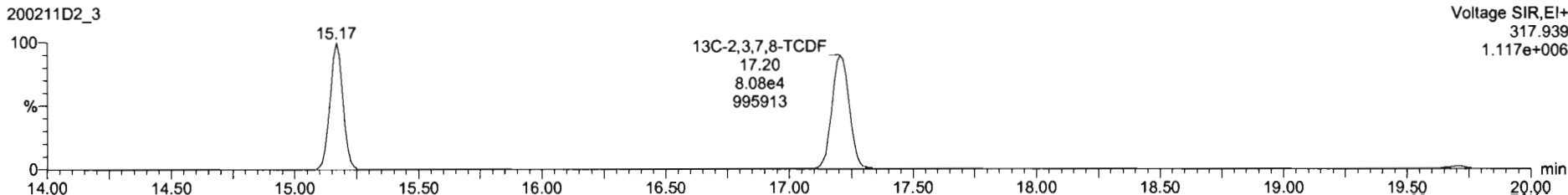
200211D2_3



13C-2,3,7,8-TCDF
200211D2_3



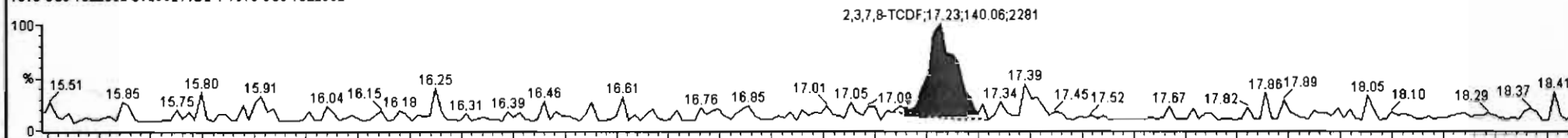
200211D2_3



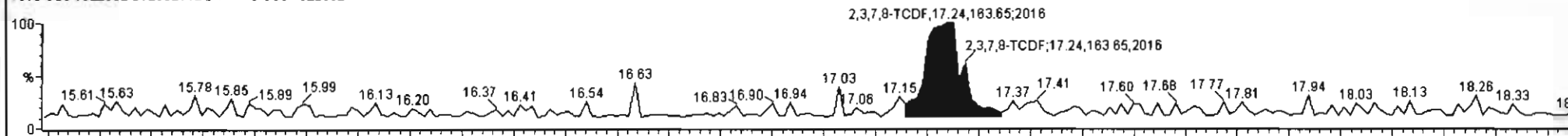
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							

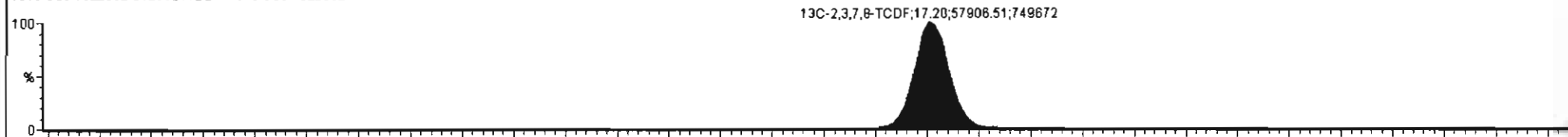
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



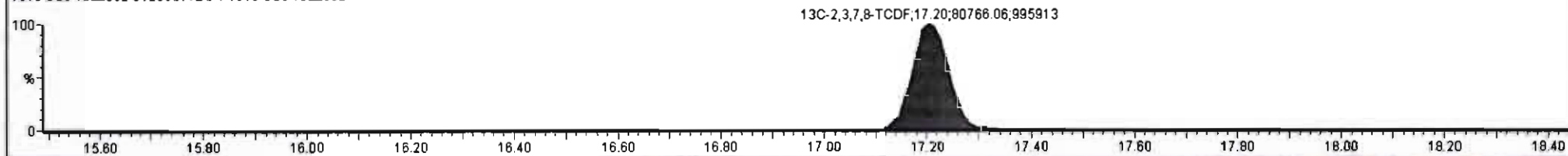
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



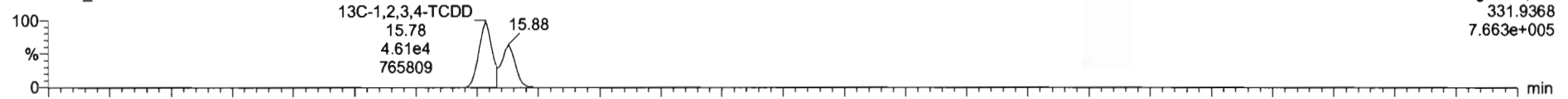
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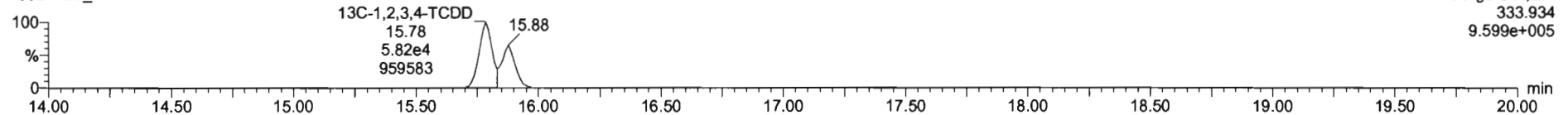
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13C-1,2,3,4-TCDD

200211D2_3

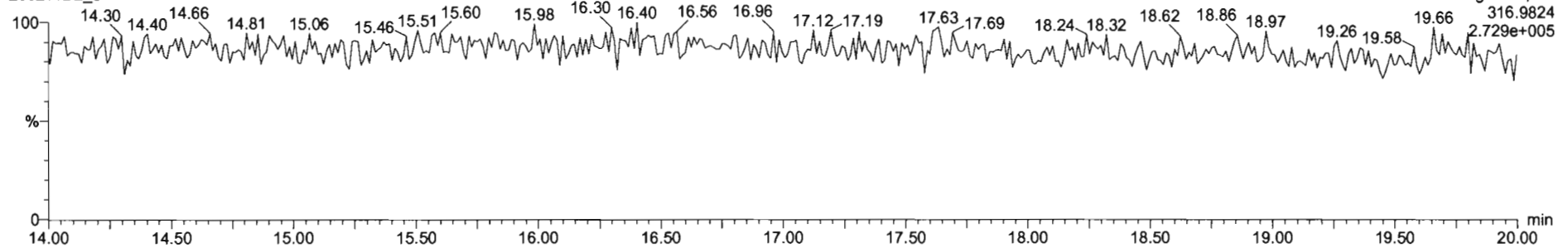


200211D2_3



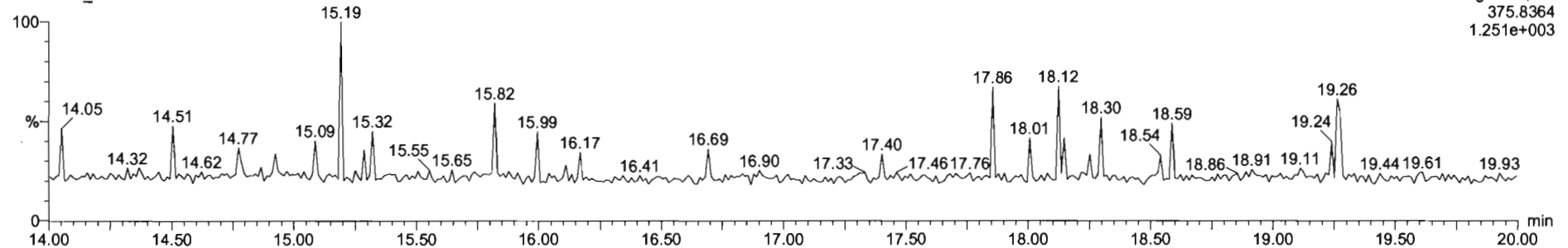
PFK1

200211D2_3



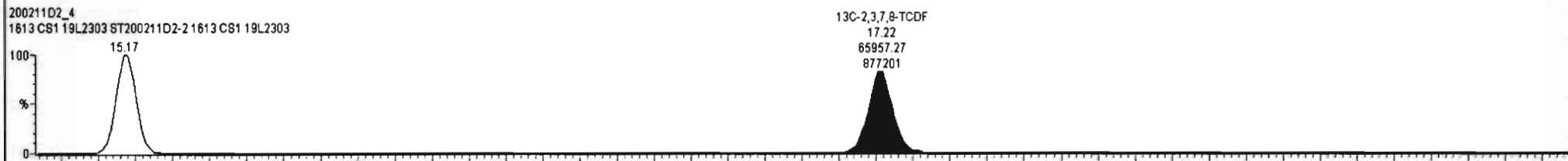
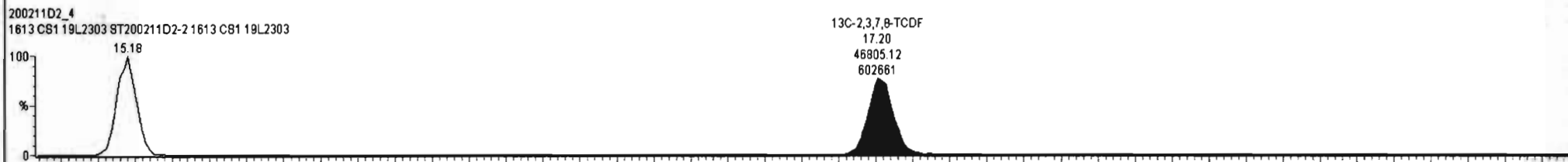
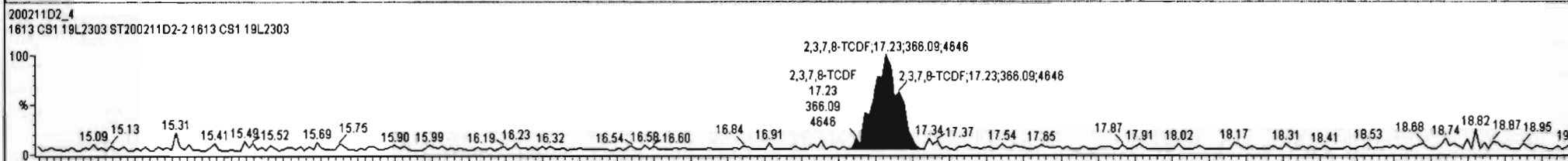
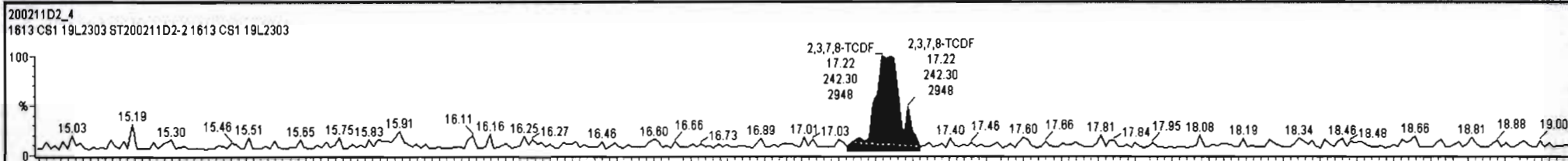
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



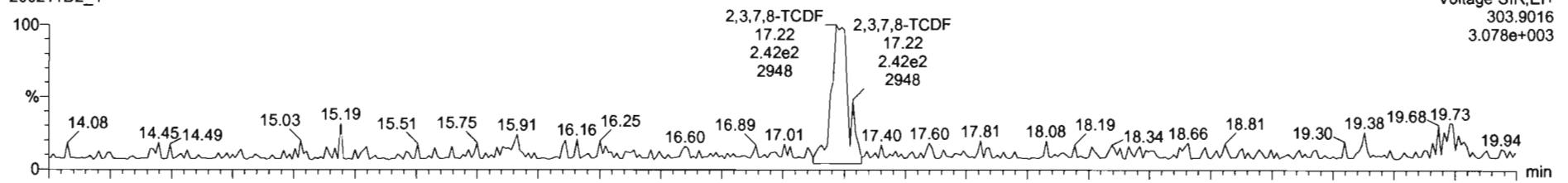
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

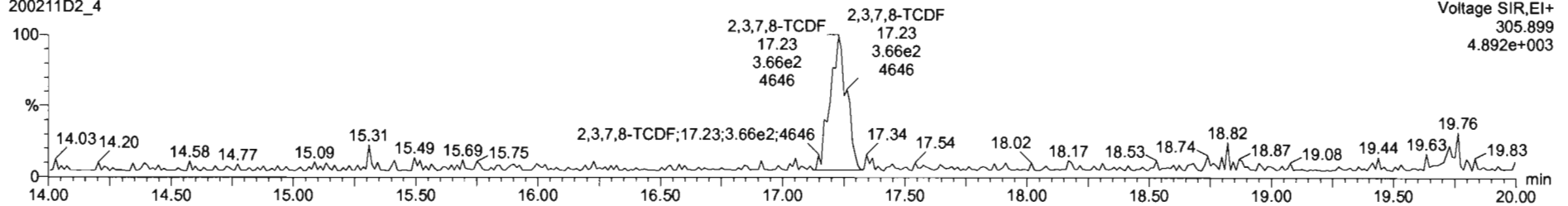
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2,3,7,8-TCDF

200211D2_4

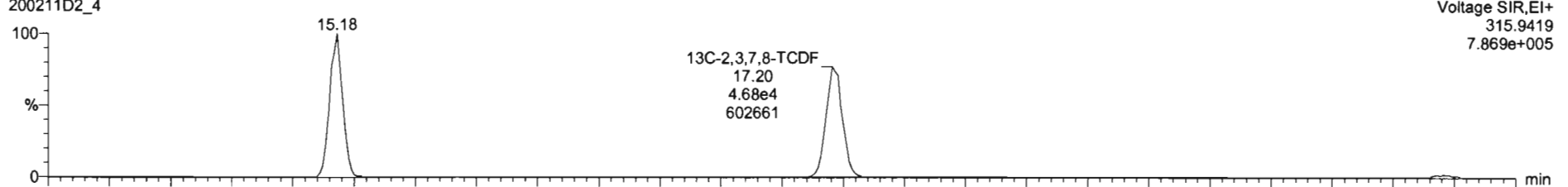


200211D2_4

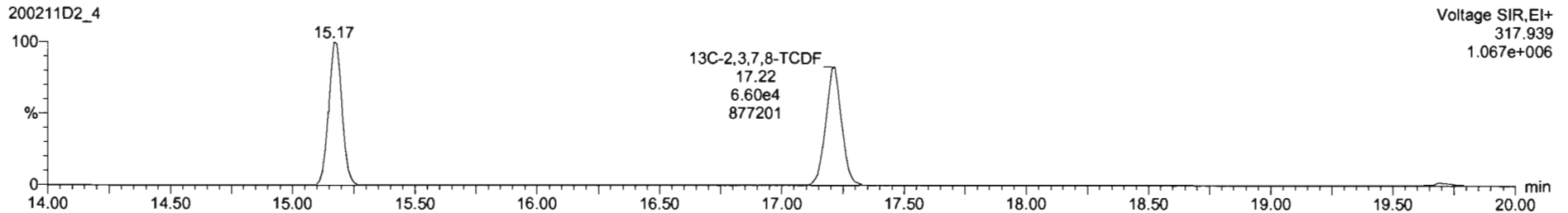


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



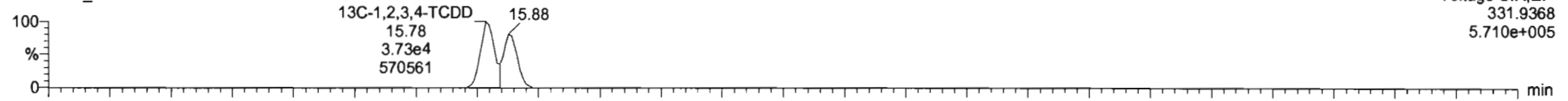
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

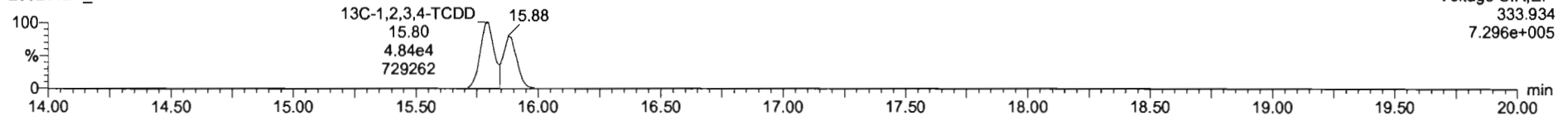
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13C-1,2,3,4-TCDD

200211D2_4

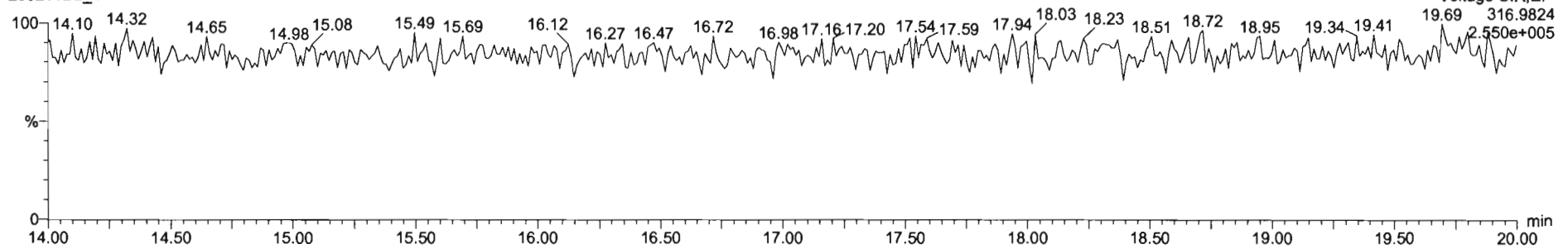


200211D2_4



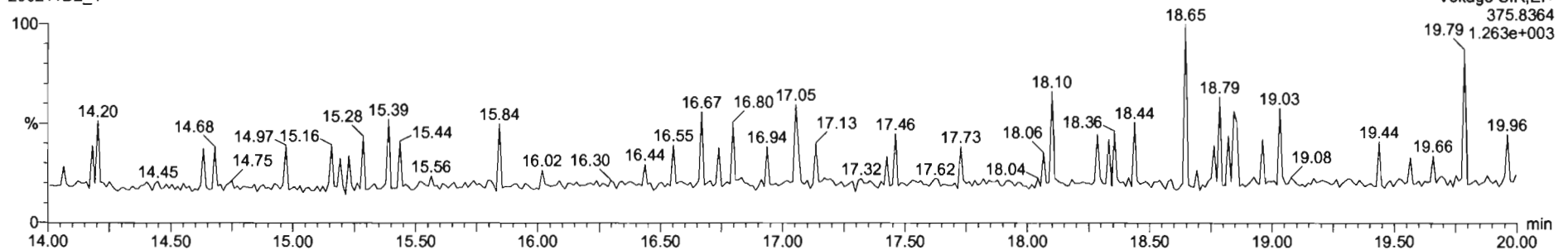
PFK1

200211D2_4



DPE1

200211D2_4



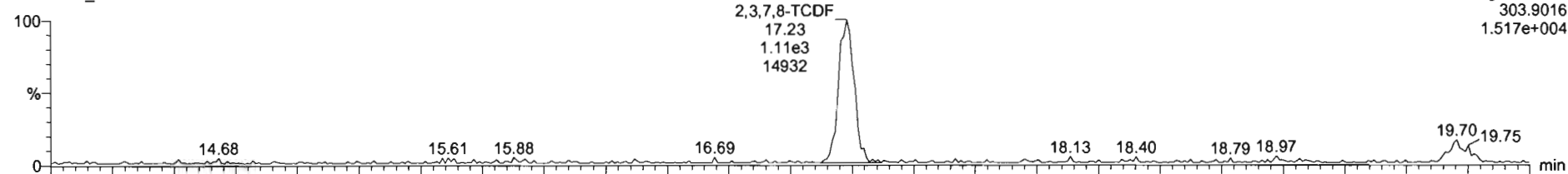
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

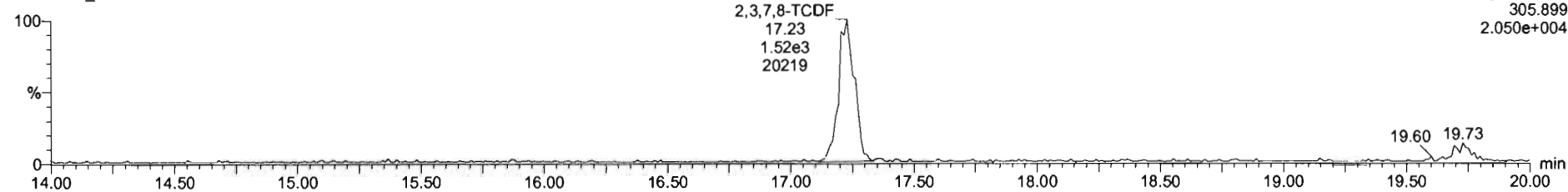
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2,3,7,8-TCDF

200211D2_5

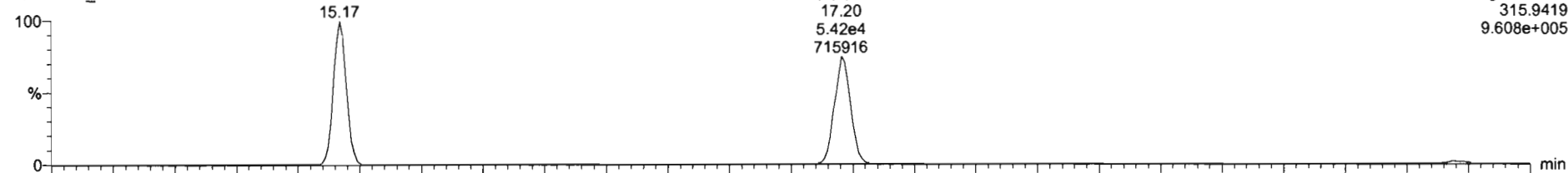


200211D2_5

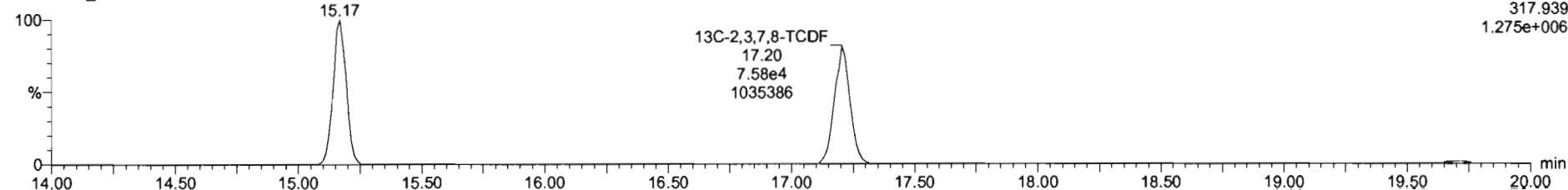


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

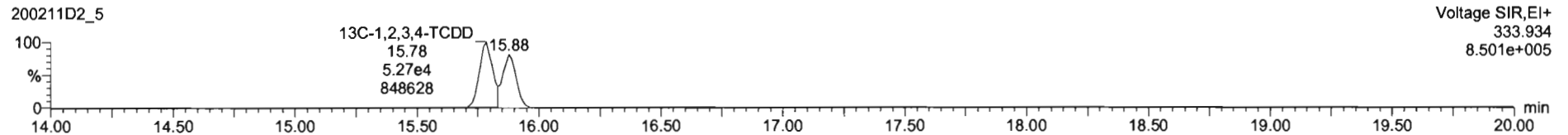
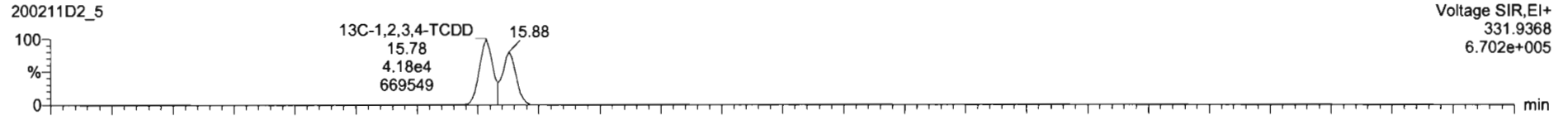


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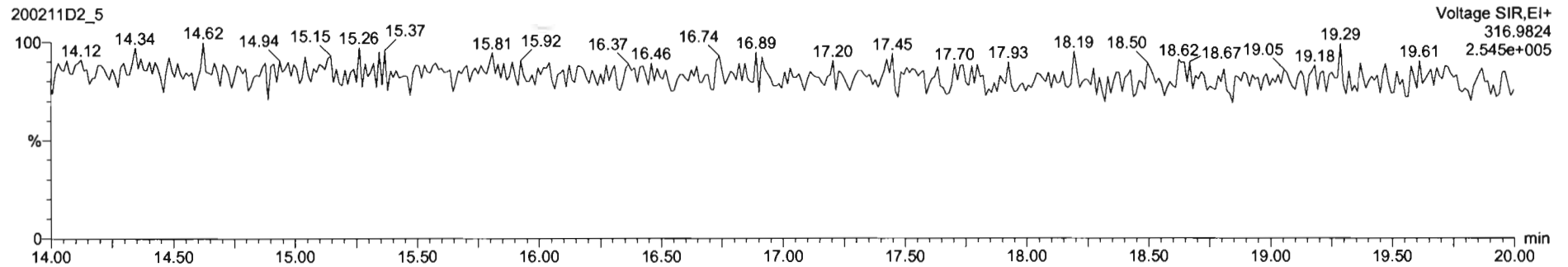
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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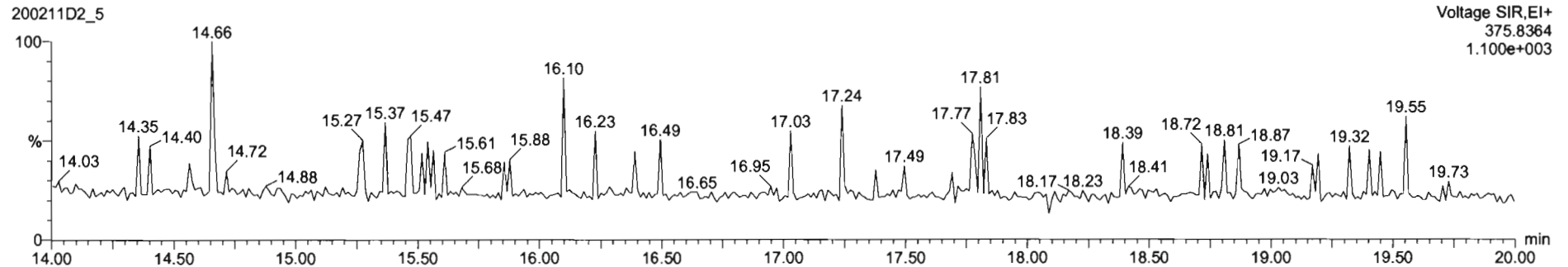
13C-1,2,3,4-TCDD



PFK1



DPE1



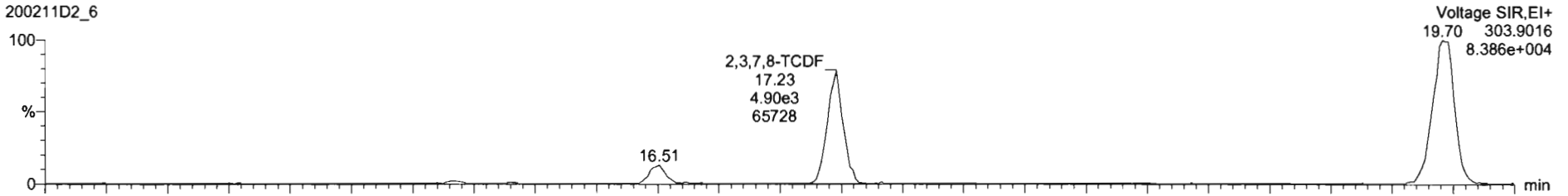
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

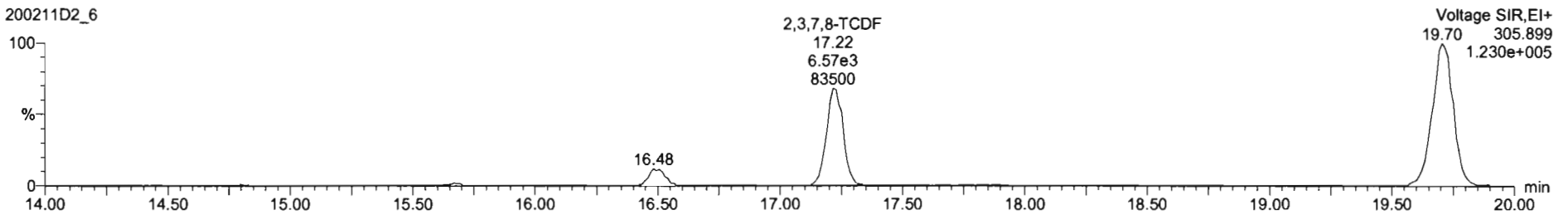
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2,3,7,8-TCDF

200211D2_6

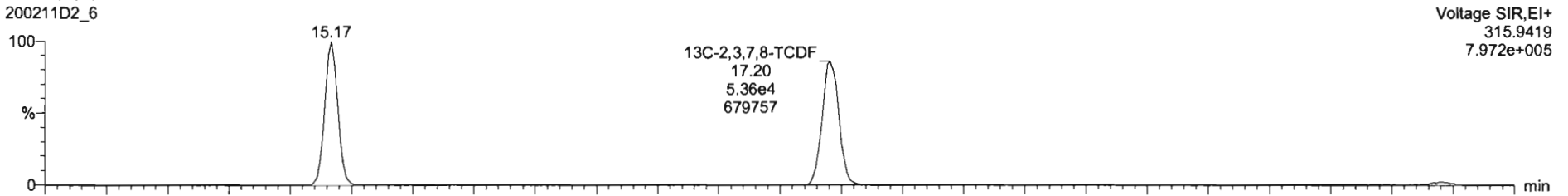


200211D2_6

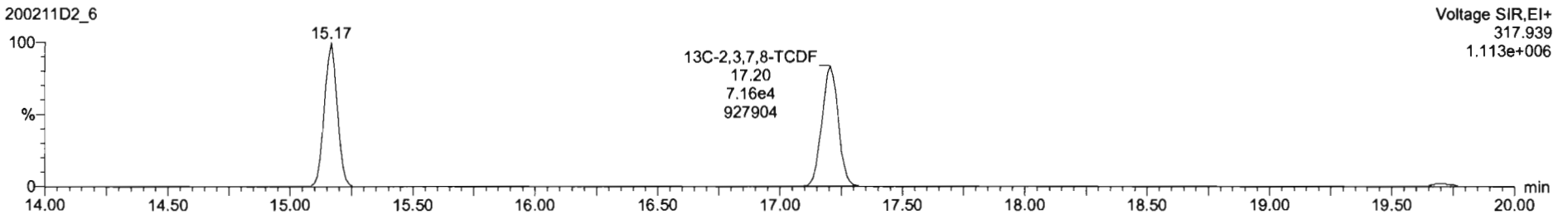


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



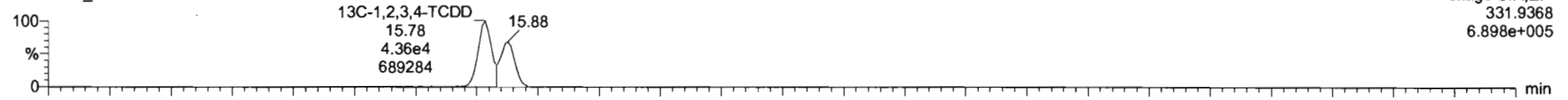
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

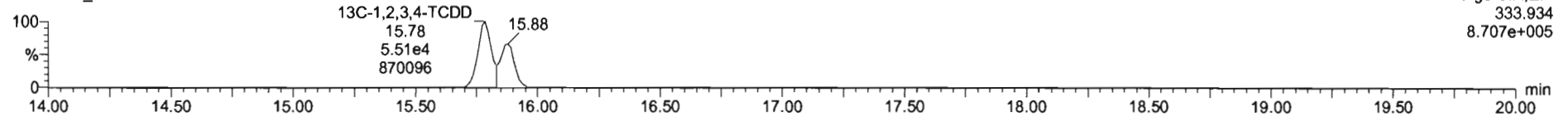
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13C-1,2,3,4-TCDD

200211D2_6

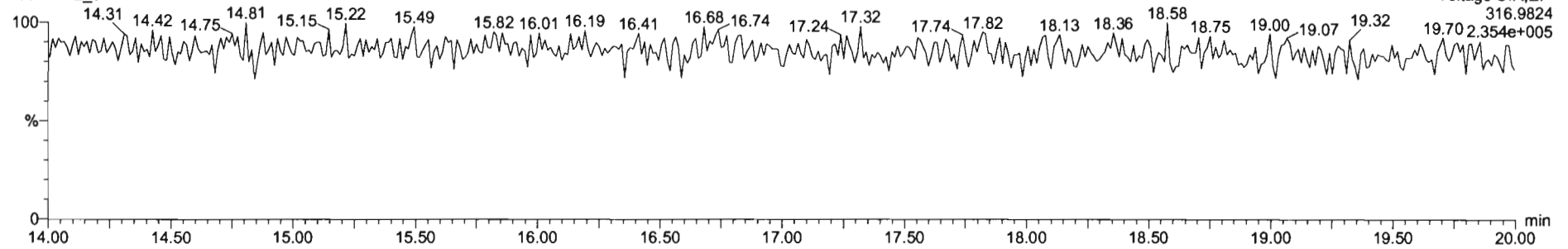


200211D2_6



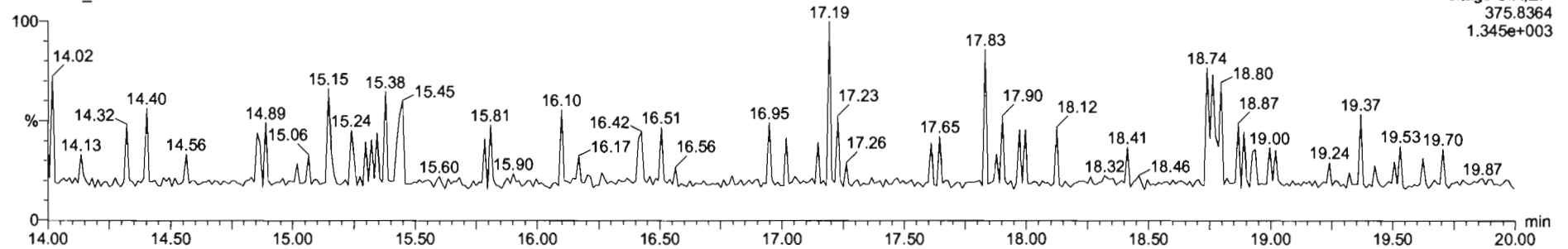
PFK1

200211D2_6



DPE1

200211D2_6



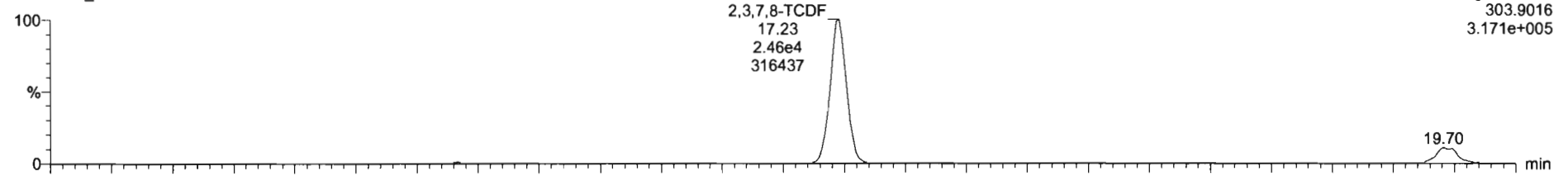
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

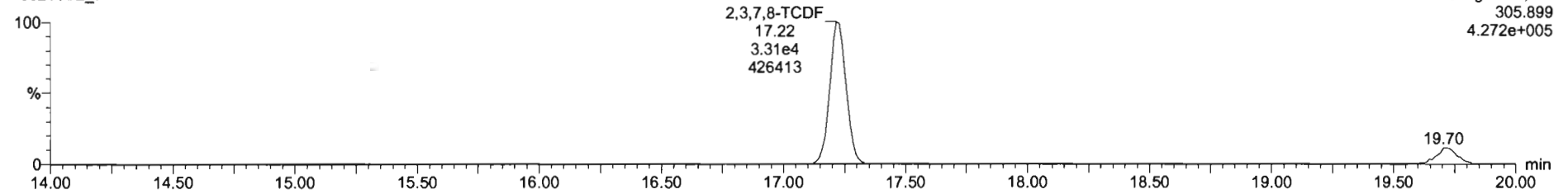
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2,3,7,8-TCDF

200211D2_7

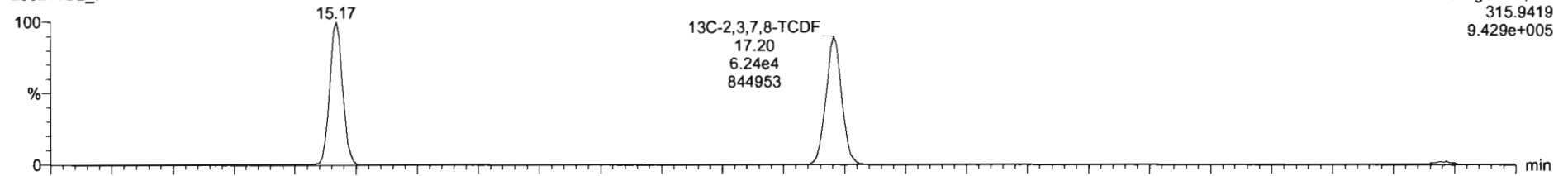


200211D2_7

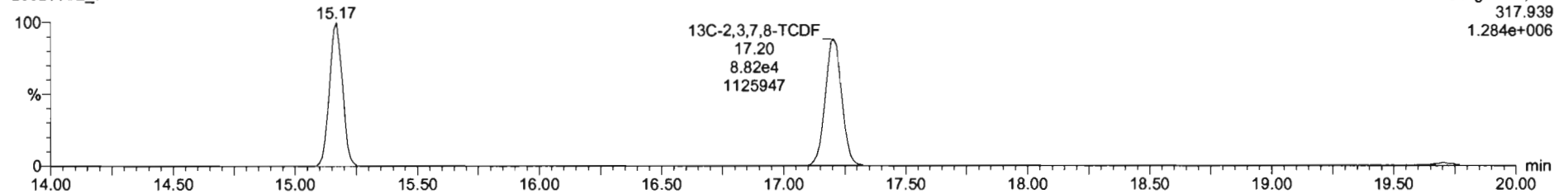


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



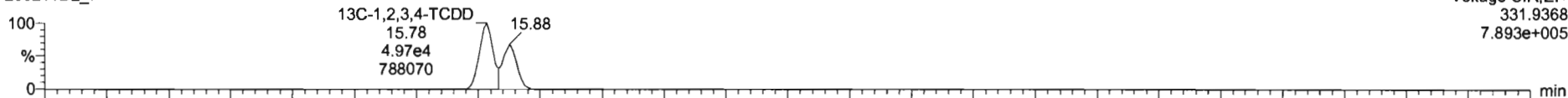
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

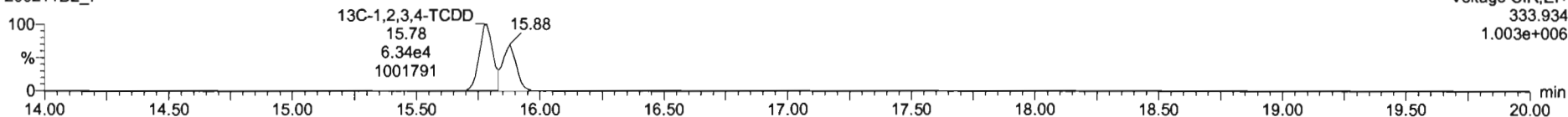
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13C-1,2,3,4-TCDD

200211D2_7

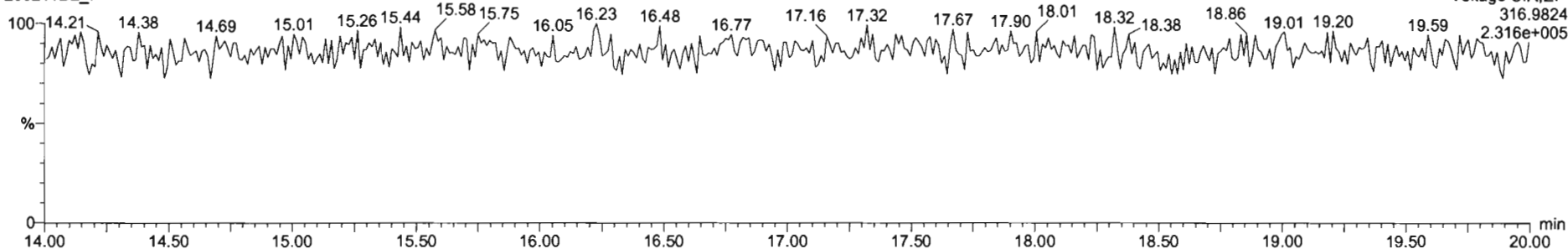


200211D2_7



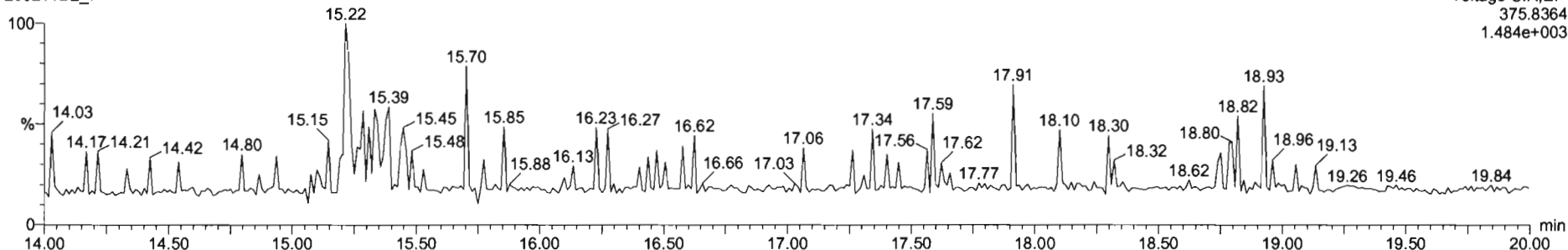
PFK1

200211D2_7



DPE1

200211D2_7



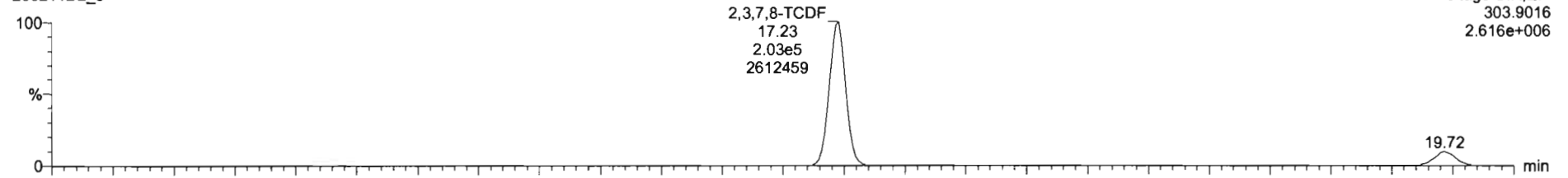
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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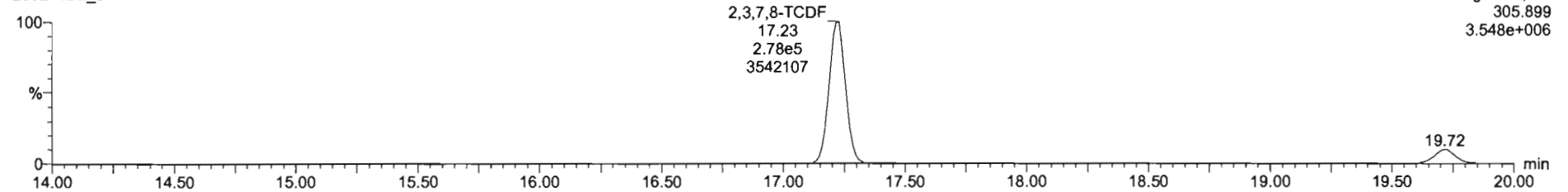
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

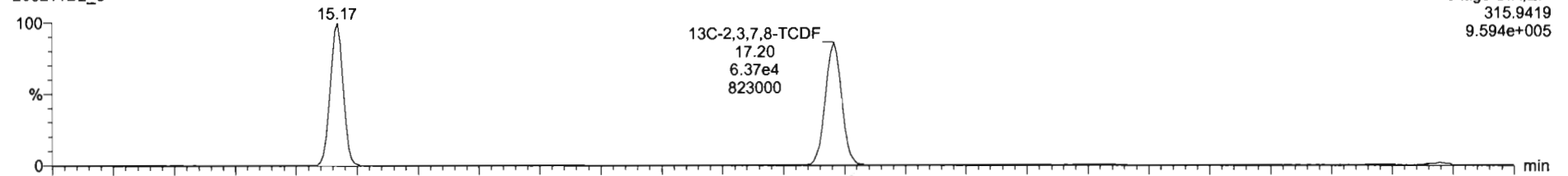
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

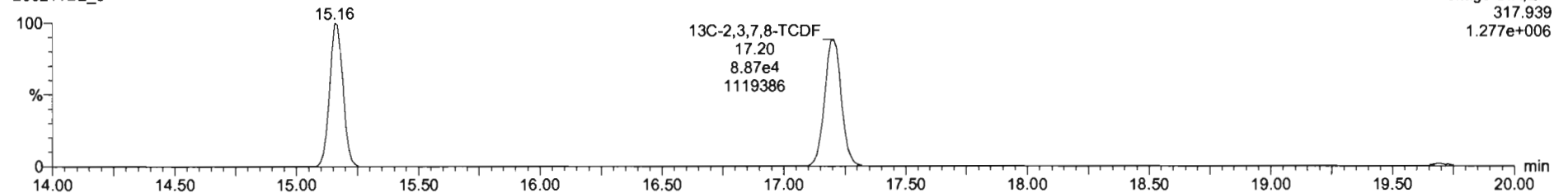
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

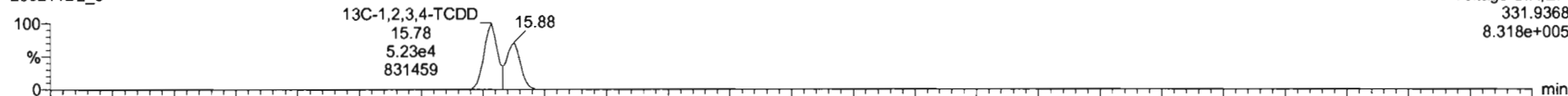
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

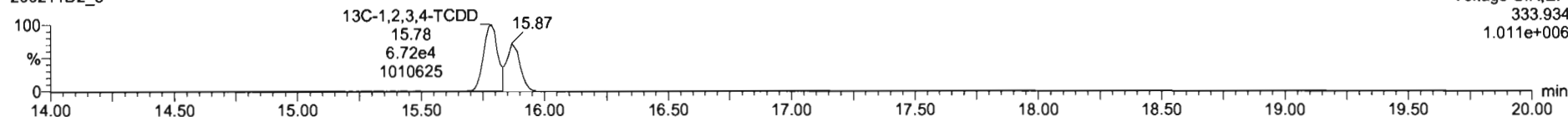
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13C-1,2,3,4-TCDD

200211D2_8

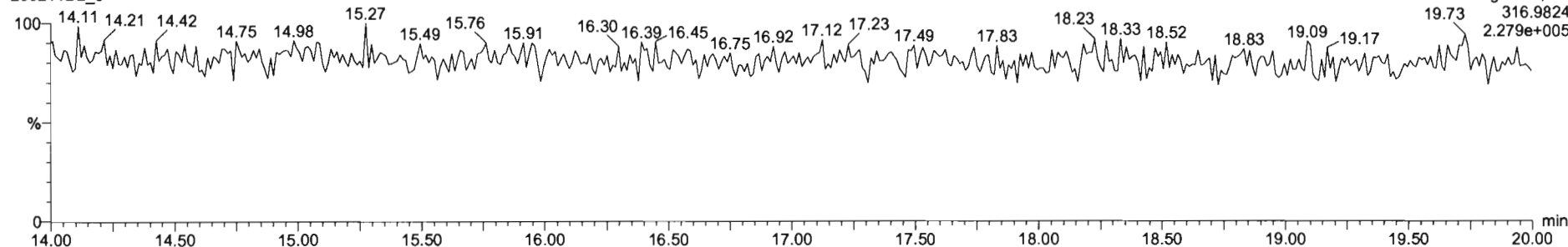


200211D2_8



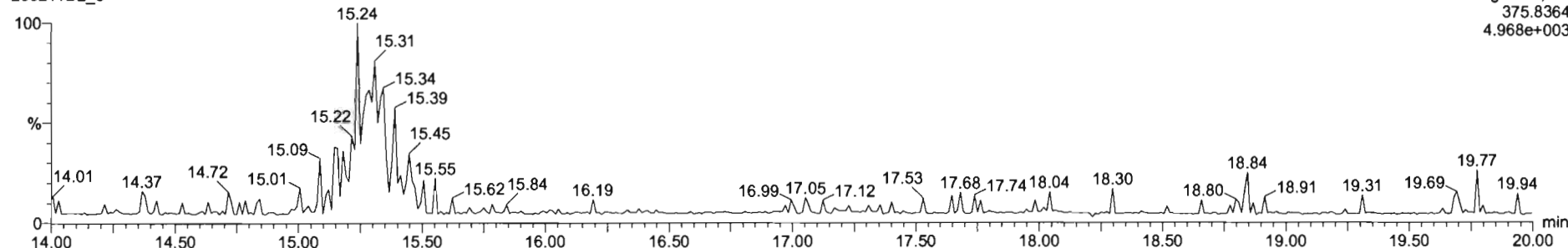
PFK1

200211D2_8

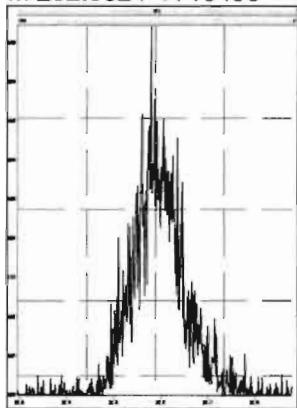


DPE1

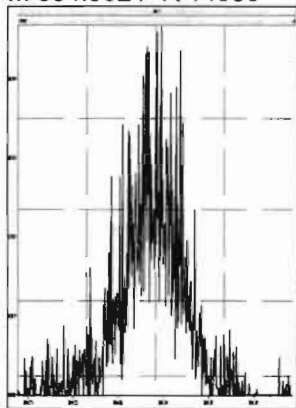
200211D2_8



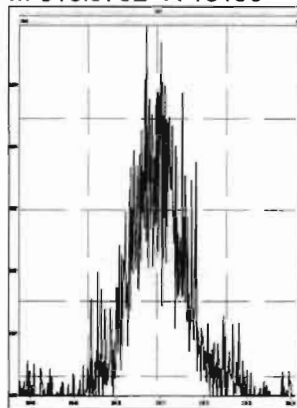
M 292.9824 R 13493



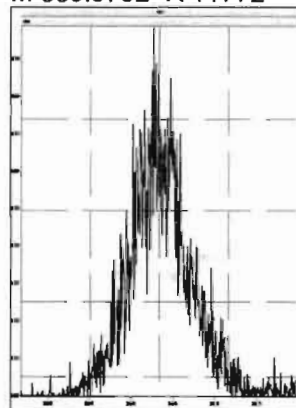
M 304.9824 R 14983



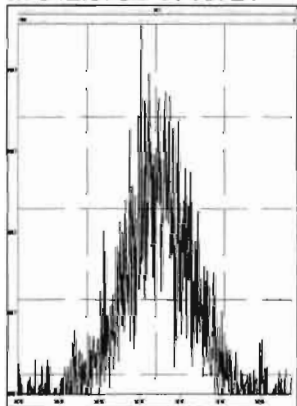
M 318.9792 R 15196



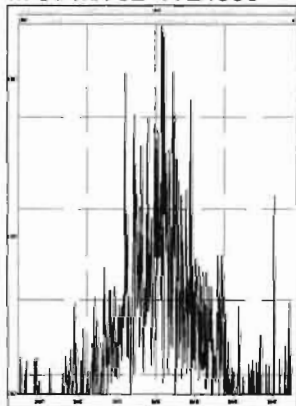
M 330.9792 R 11772



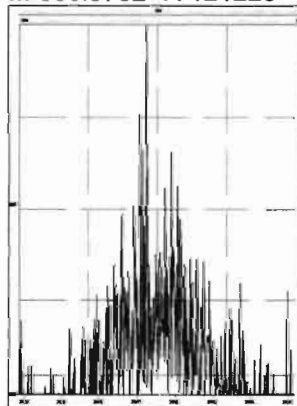
M 342.9792 R 13721



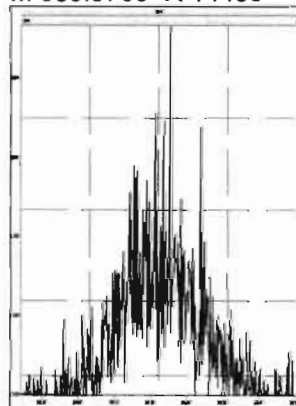
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

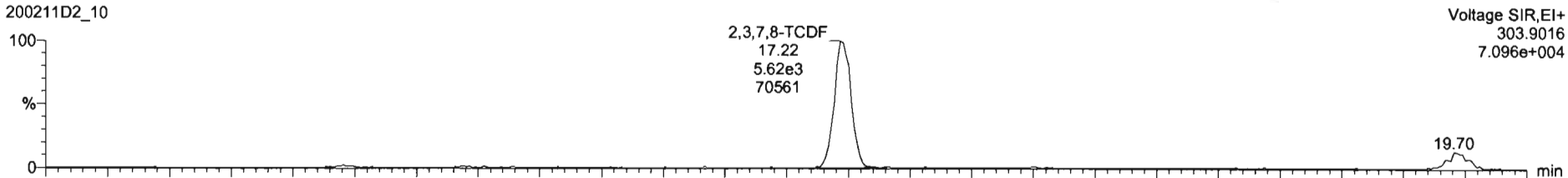
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

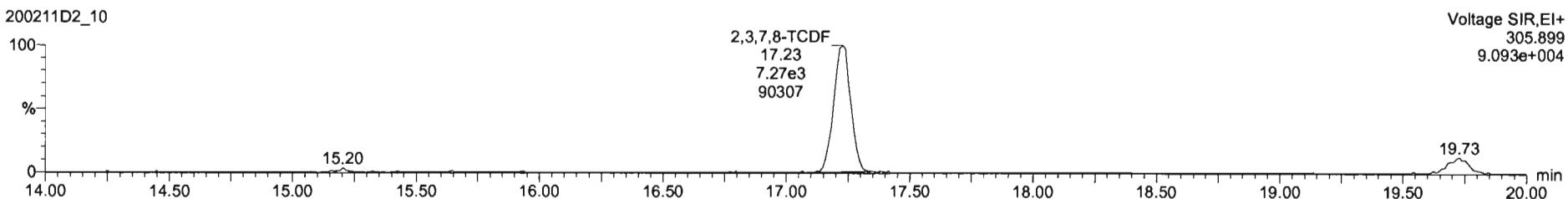
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

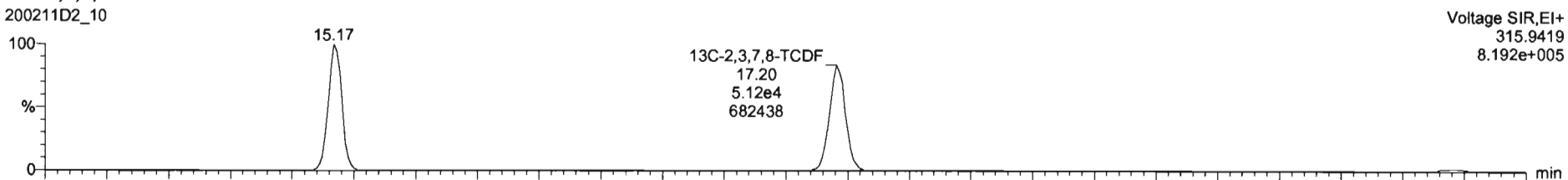


200211D2_10

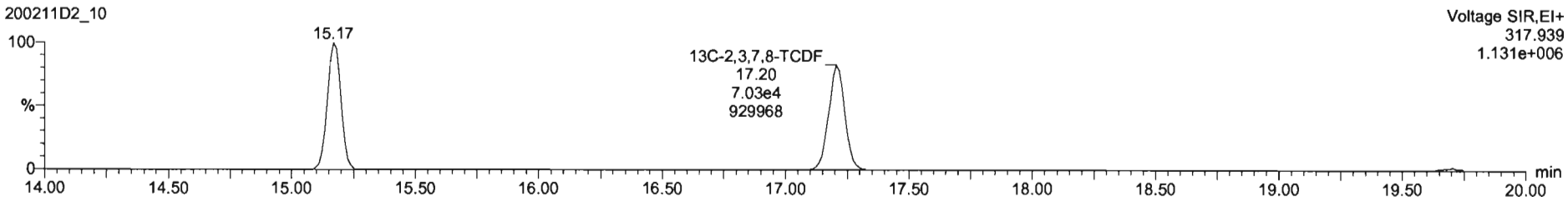


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



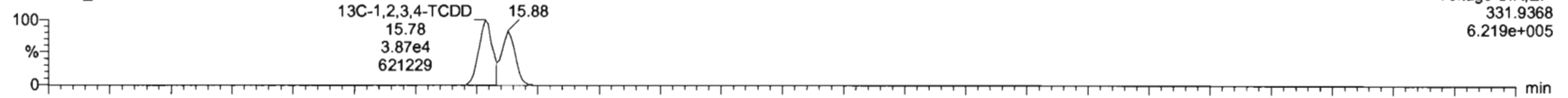
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

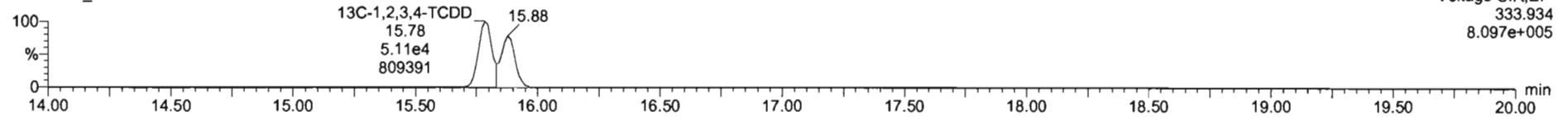
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

13C-1,2,3,4-TCDD

200211D2_10

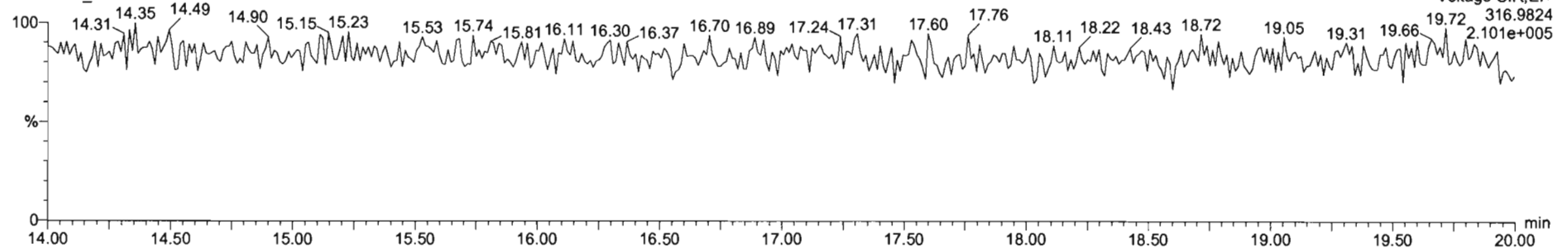


200211D2_10



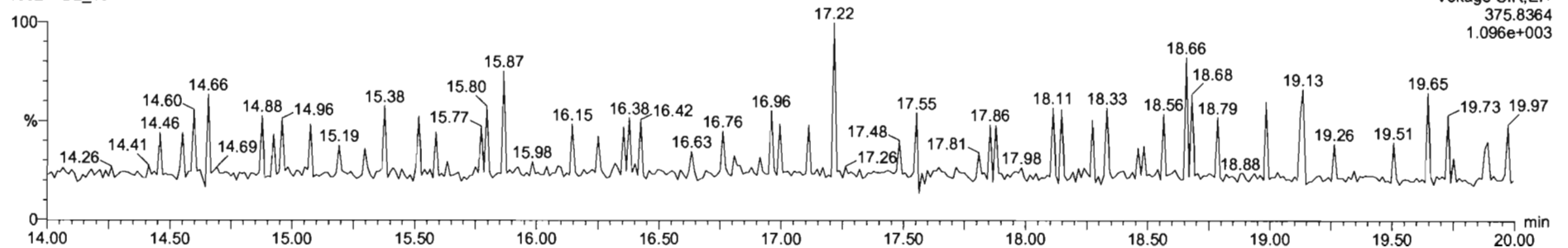
PFK1

200211D2_10



DPE1

200211D2_10



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

GRB 03/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Compound name: 2,3,7,8-TCDF

Response Factor: 0.820787

RRF SD: 0.107593, Relative SD: 13.1085

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	0.250	0.77	NO	16.58	1.001	4.20e3	1.63e6	0.314	25.4	1.03	MM
2	200309R2_3	0.500	0.73	NO	16.59	1.001	5.46e3	1.37e6	0.487	-2.7	0.799	MM
3	200309R2_4	2.00	0.74	NO	16.56	1.001	2.05e4	1.37e6	1.81	-9.3	0.745	bb
4	200309R2_5	10.0	0.75	NO	16.56	1.001	1.02e5	1.39e6	8.95	-10.5	0.735	bb
5	200309R2_6	40.0	0.74	NO	16.56	1.001	5.13e5	1.61e6	38.8	-3.0	0.796	bb
6	200309R2_7	300	0.76	NO	16.56	1.001	4.09e6	1.66e6	300	-0.0	0.821	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.10088

RRF SD: 0.097324, Relative SD: 8.84057

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.78	NO	16.56	1.147	1.63e6	1.30e6	114	13.7	1.25	bb
2	200309R2_3	100	0.77	NO	16.56	1.147	1.37e6	1.38e6	89.9	-10.1	0.990	bb
3	200309R2_4	100	0.77	NO	16.54	1.146	1.37e6	1.38e6	90.5	-9.5	0.996	bb
4	200309R2_5	100	0.77	NO	16.54	1.147	1.39e6	1.25e6	102	1.6	1.12	bb
5	200309R2_6	100	0.77	NO	16.54	1.146	1.61e6	1.43e6	102	2.2	1.13	bb
6	200309R2_7	100	0.77	NO	16.54	1.146	1.66e6	1.48e6	102	2.0	1.12	bb

Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.79	NO	14.45	1.000	1.30e6	1.30e6	100	0.0	1.00	bb
2	200309R2_3	100	0.79	NO	14.45	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	200309R2_4	100	0.79	NO	14.44	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200309R2_5	100	0.78	NO	14.42	1.000	1.25e6	1.25e6	100	0.0	1.00	bb
5	200309R2_6	100	0.79	NO	14.44	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
6	200309R2_7	100	0.78	NO	14.44	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 11994.1

RRF SD: 1070.13, Relative SD: 8.92214

Response type: External Std, Area

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.77	NO	15.08	0.000	1.28e6		107	6.6	12800	bd
2	200309R2_3	100	0.78	NO	15.06	0.000	1.08e6		90.4	-9.6	10800	bd
3	200309R2_4	100	0.77	NO	15.05	0.000	1.11e6		92.2	-7.8	11100	bd
4	200309R2_5	100	0.75	NO	15.05	0.000	1.12e6		93.6	-6.4	11200	bd
5	200309R2_6	100	0.77	NO	15.05	0.000	1.28e6		107	6.5	12800	bd
6	200309R2_7	100	0.78	NO	15.05	0.000	1.33e6		111	10.8	13300	bd

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:04:02 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:04:32 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 07:53:03

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200309R2_1	CP200309R2_1 225 CPSM	09-Mar-20	17:55:29
2	200309R2_2	ST200309R2_1 1613 CS0 19L2302	09-Mar-20	18:25:43
3	200309R2_3	ST200309R2_2 1613 CS1 19L2303	09-Mar-20	18:56:05
4	200309R2_4	ST200309R2_3 1613 CS2 19L2304	09-Mar-20	19:26:33
5	200309R2_5	ST200309R2_4 1613 CS3 19L2305	09-Mar-20	19:57:01
6	200309R2_6	ST200309R2_5 1613 CS4 19L2306	09-Mar-20	20:27:25
7	200309R2_7	ST200309R2_6 1613 CS5 19L2307	09-Mar-20	20:57:48
8	200309R2_8	SOLVENT BLANK	09-Mar-20	21:28:11
9	200309R2_9	SS200309R2_1 1613 SSS 19L2308	09-Mar-20	21:58:38
10	200309R2_10	SOLVENT BLANK	09-Mar-20	22:29:05
11	200309R2_11	1904012-10RE2 PX-S23-SB48-0203 10.92	09-Mar-20	22:59:38
12	200309R2_12	2000301-01RE2 PDI-077SC-A-02-03-191014 ...	09-Mar-20	23:29:57
13	200309R2_13	B0B0291-DUP1 Duplicate 18.51	10-Mar-20	00:00:21
14	200309R2_14	2000407-01RE1 PDI-084SC-A-05-06-191002 ...	10-Mar-20	00:30:51
15	200309R2_15	2000407-02RE1 PDI-084SC-A-06-07-191002 ...	10-Mar-20	01:01:18
16	200309R2_16	2000407-03RE1 PDI-084SC-A-07-08-191002 ...	10-Mar-20	01:31:45
17	200309R2_17	2000407-04RE1 PDI-084SC-A-08-09-191002 ...	10-Mar-20	02:02:13
18	200309R2_18	2000407-05RE1 PDI-084SC-A-09-10-191002 ...	10-Mar-20	02:32:40
19	200309R2_19	2000407-06RE1 PDI-084SC-A-10-11-191002 ...	10-Mar-20	03:03:07
20	200309R2_20	2000407-07RE1 PDI-084SC-A-11-12-191002 ...	10-Mar-20	03:33:35

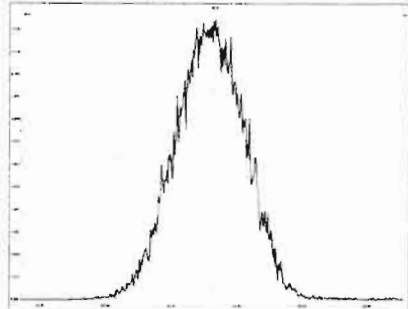
Experiment Calibration Report

MassLynx 4.1 SCN815

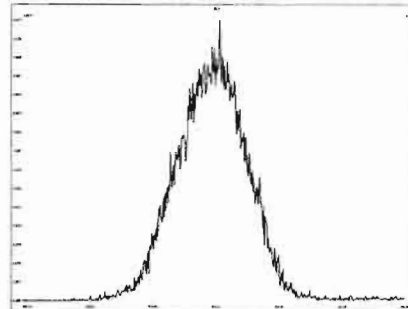
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 09, 2020 17:53:48 Pacific Daylight Time

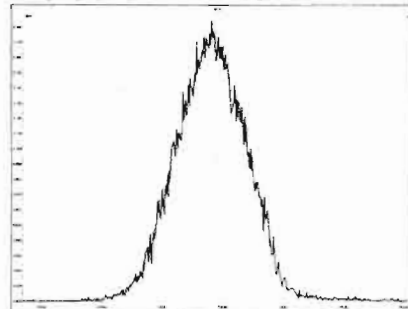
M 292.9824 R 12197



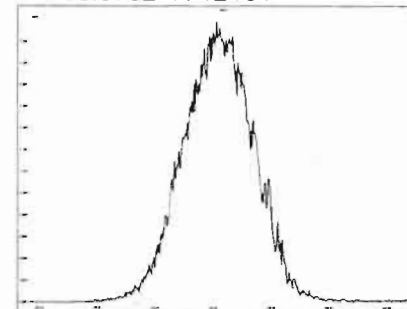
M 304.9824 R 12886



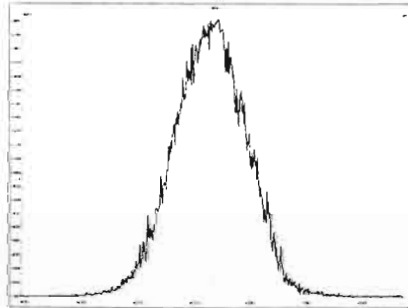
M 318.9792 R 12258



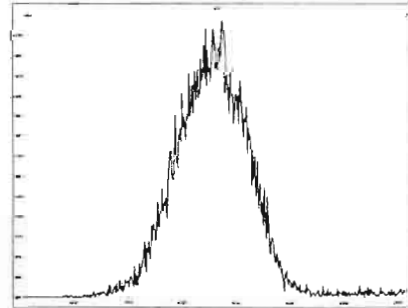
M 330.9792 R 12131



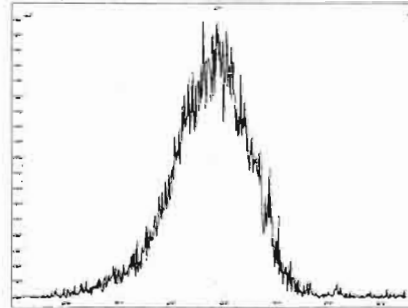
M 342.9792 R 11960



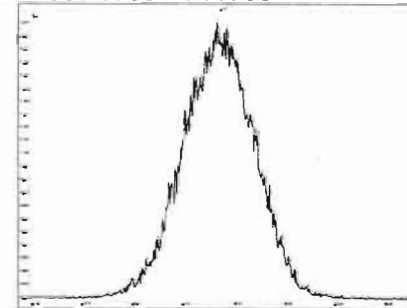
M 354.9792 R 13154



M 366.9792 R 10504



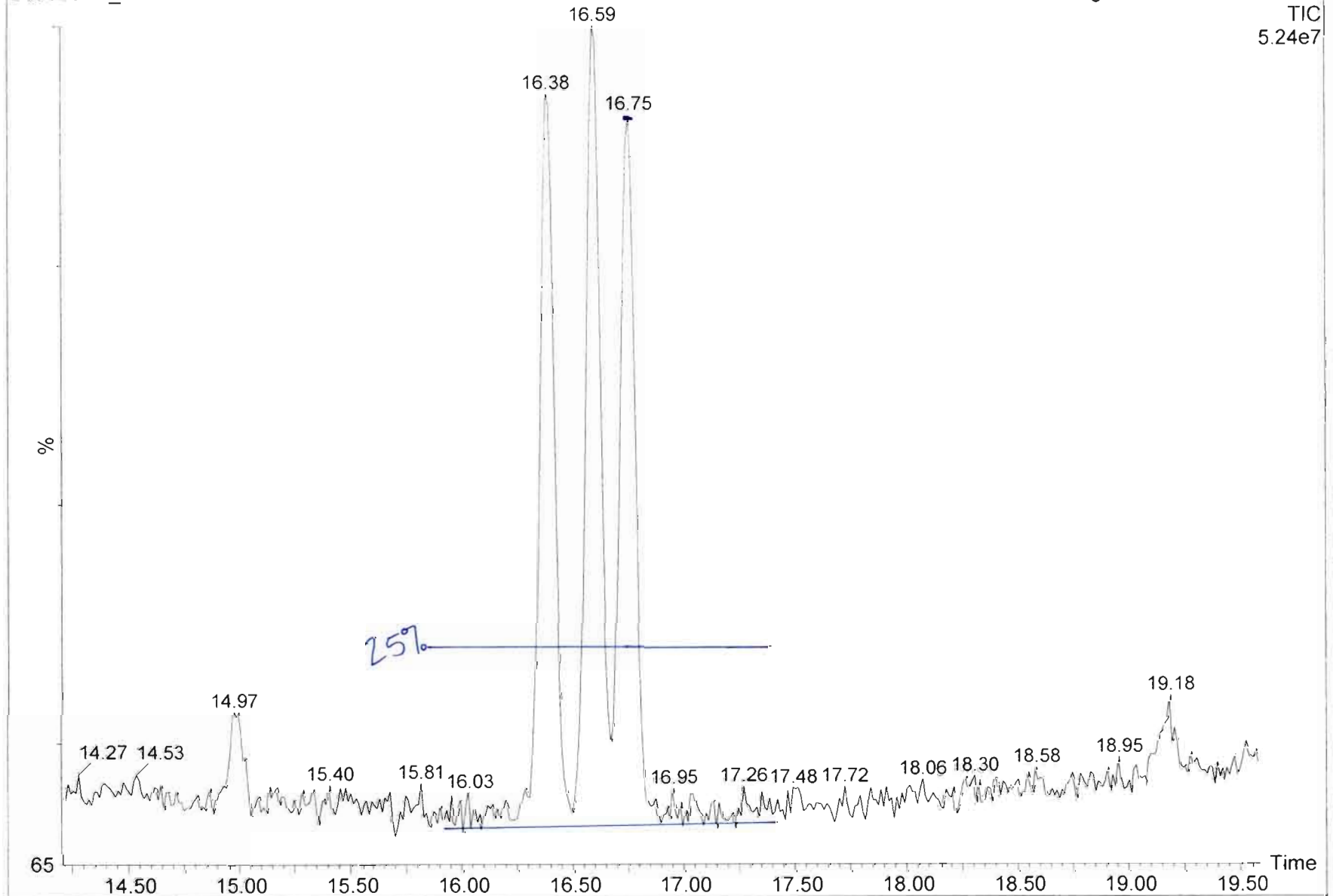
M 380.9760 R 11795



GRB 03/10/2020

225 CPSM
200309R2_1

Voltage SIR 12 Channels EI+
TIC
5.24e7



Dataset: Untitled

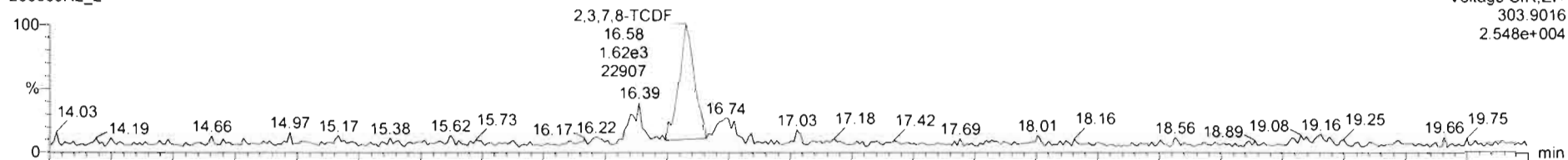
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 08:42:36
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

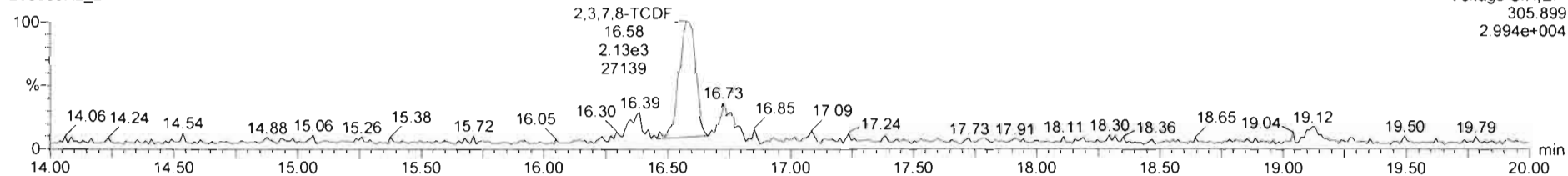
Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200309R2_2

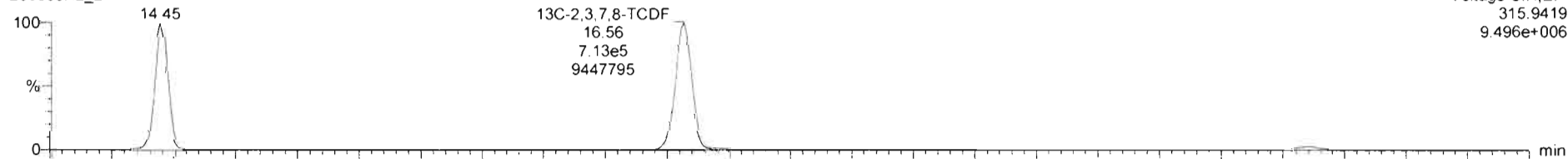


200309R2_2

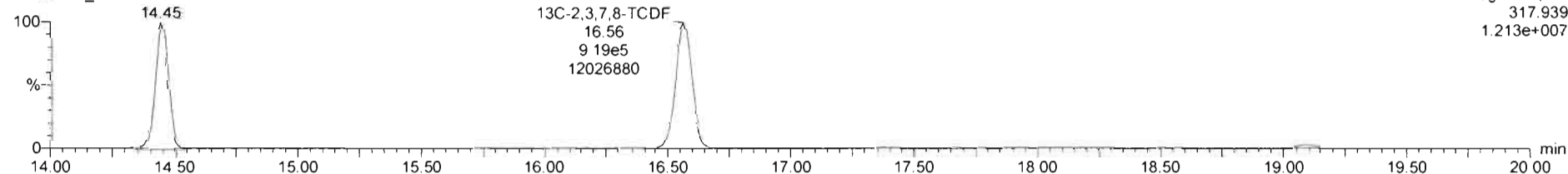


13C-2,3,7,8-TCDF

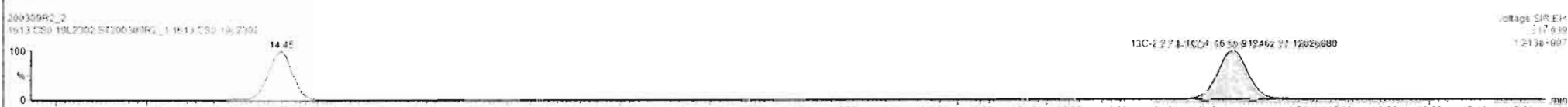
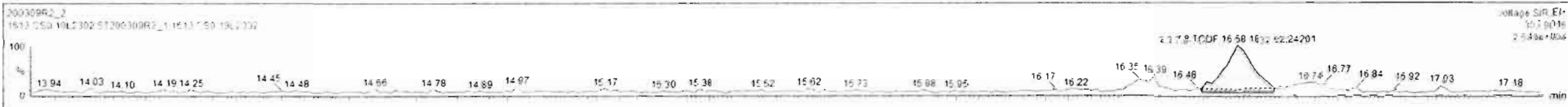
200309R2_2



200309R2_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDF	16.58	0.774	NO	4.2011e3	1.6321e6	0.250	24.2	13.0	0.829	0.107
2	13C-2,3,7,8-TCDF	16.58	0.775	NO	1.6321e5	1.3038e6	100.000	12.7	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.787	NO	1.3038e6	1.3038e6	100.000	6.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.08	0.790	NO	1.2780e6		100.000	6.6	8.92	12000	1070
5	PFK1						1.000				
6	DPE1						1.000				



Dataset: Untitled

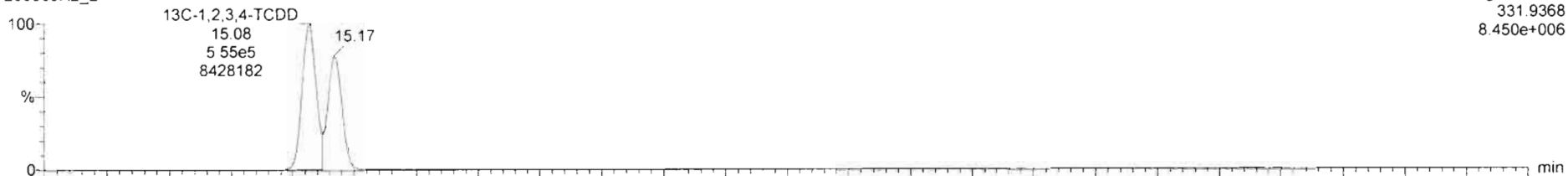
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

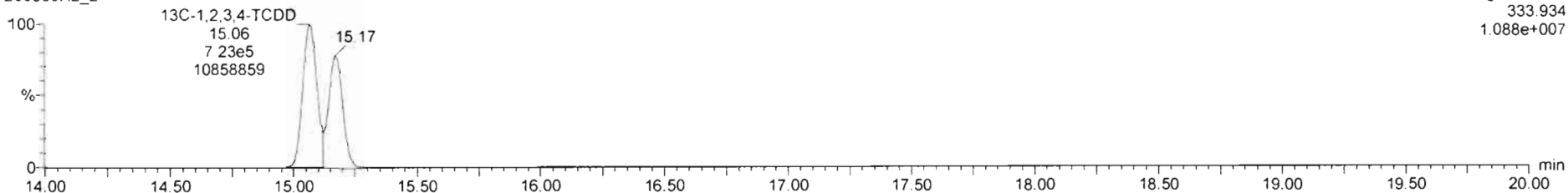
Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

13C-1,2,3,4-TCDD

200309R2_2

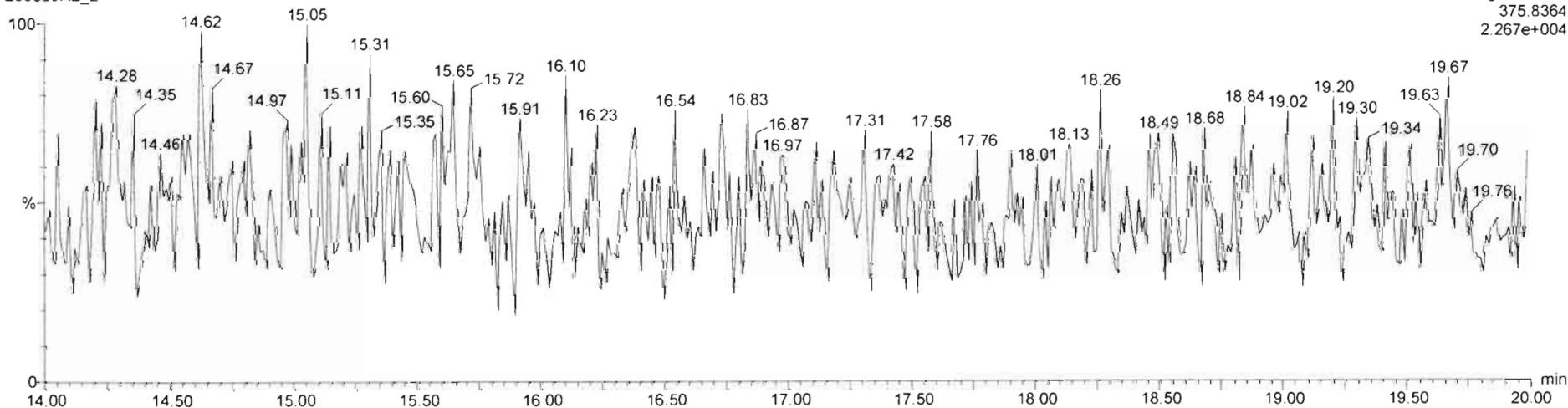


200309R2_2



DPE1

200309R2_2



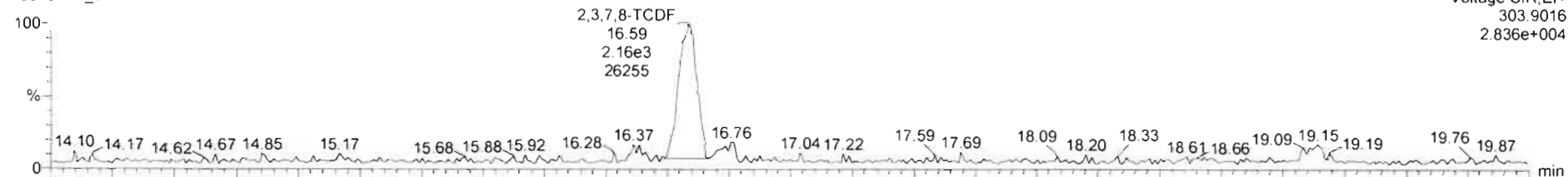
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

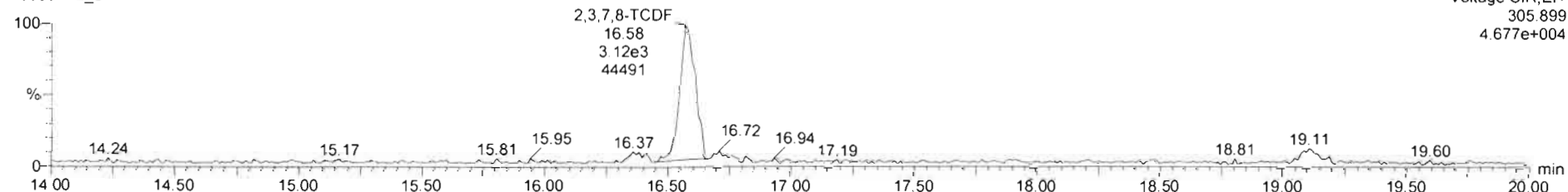
Name: 200309R2_3, Date: 09-Mar-2020, Time: 18:56:05, ID: ST200309R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200309R2_3

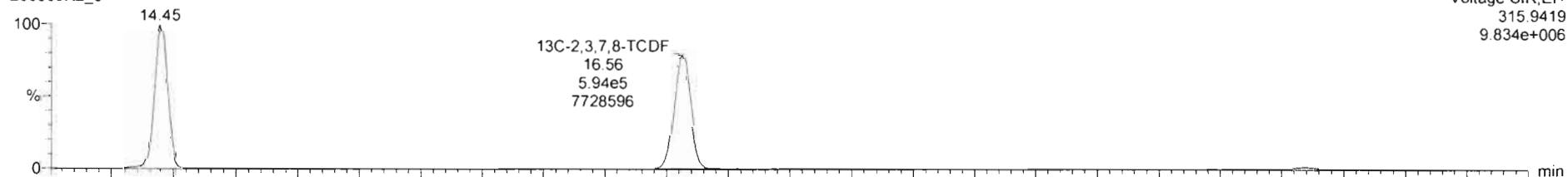


200309R2_3

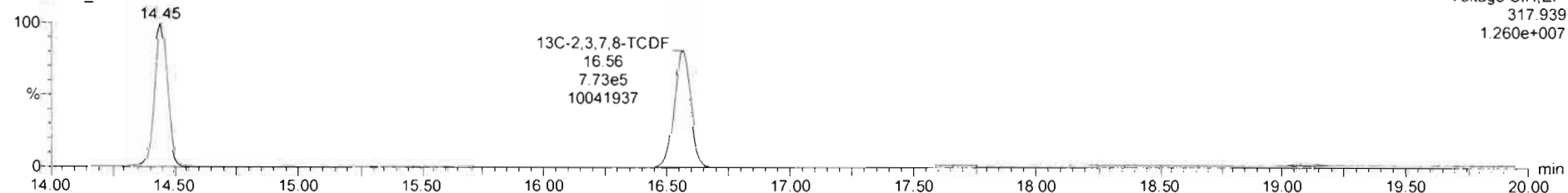


13C-2,3,7,8-TCDF

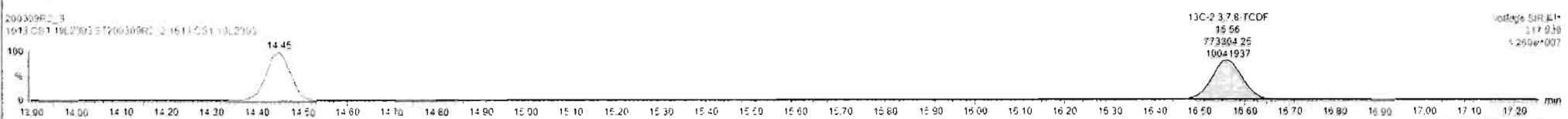
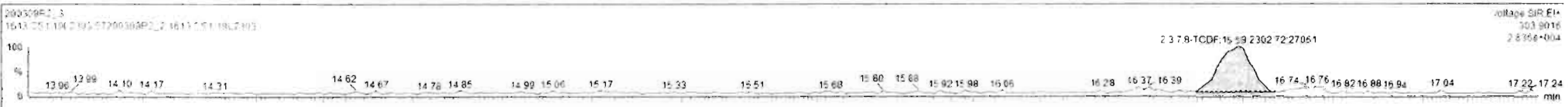
200309R2_3



200309R2_3



#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2 3 7 8-TCDF	16.56	0.729	NO	5.4614e3	1.3676e6	0.500	-2.7	13.1	0.021	0.108
2	13C 2 3 7 8-TCDF	16.56	0.768	NO	1.3676e6	1.3812e6	100.000	-10.1	2.84	1.10	0.0973
3	13C 1 2 3 4-TCDF	14.45	0.781	NO	1.3812e6	1.3812e6	100.000	0.0	0.000	1.00	0.000
4	13C 1 2 3 4-TCDD	15.96	0.777	NO	1.0641e6		100.000	-9.6	8.92	12000	1070
5	DPK1						1.000				
6	DPS1						1.000				



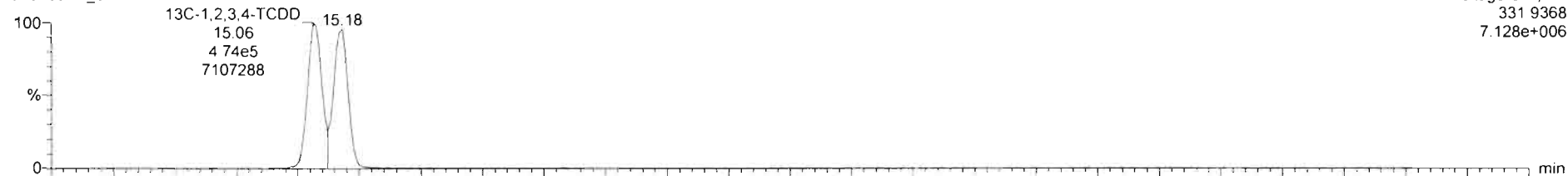
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Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

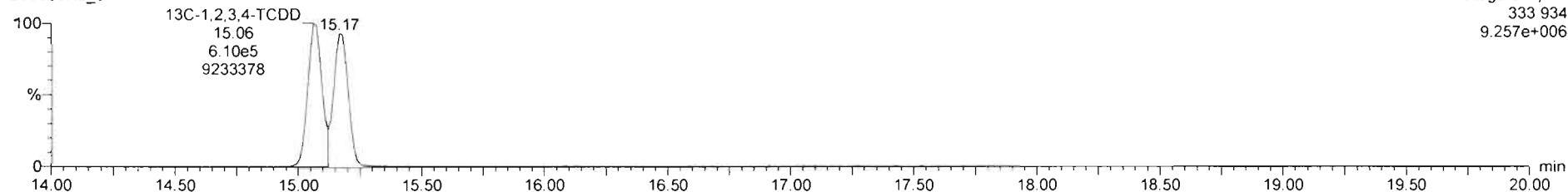
Name: 200309R2_3, Date: 09-Mar-2020, Time: 18:56:05, ID: ST200309R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

13C-1,2,3,4-TCDD

200309R2_3

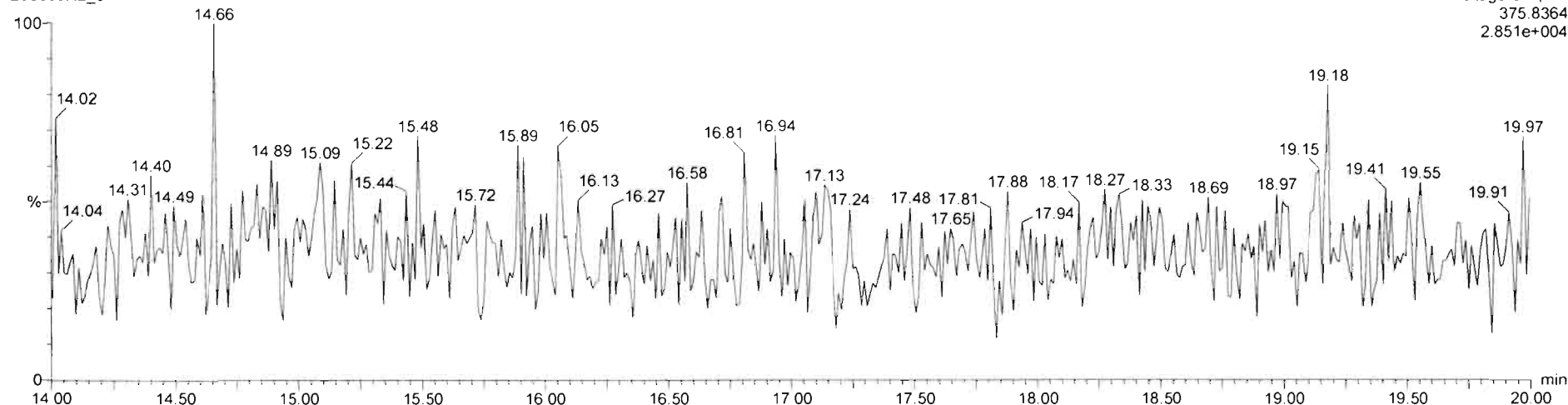


200309R2_3



DPE1

200309R2_3



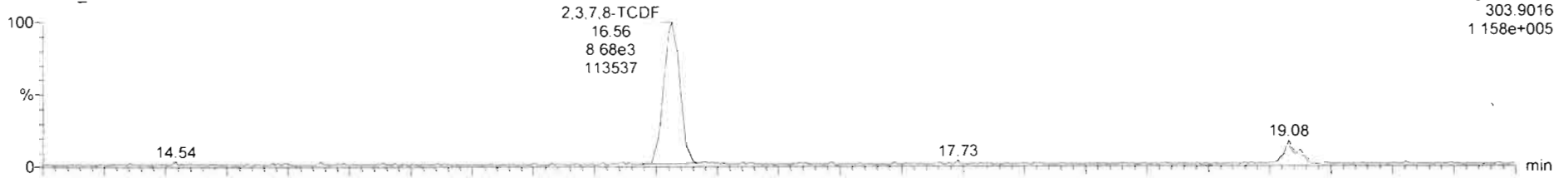
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

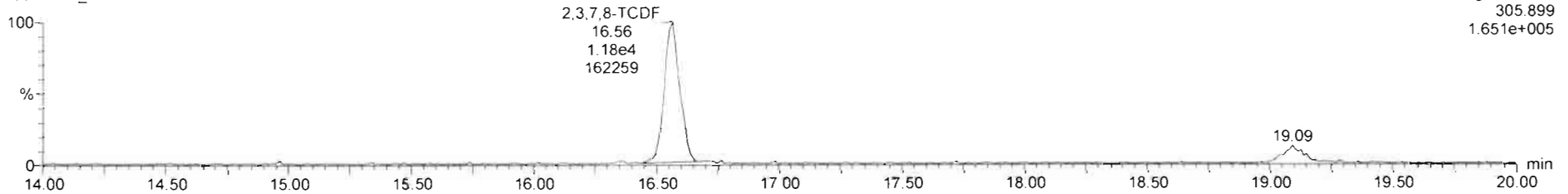
Name: 200309R2_4, Date: 09-Mar-2020, Time: 19:26:33, ID: ST200309R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200309R2_4

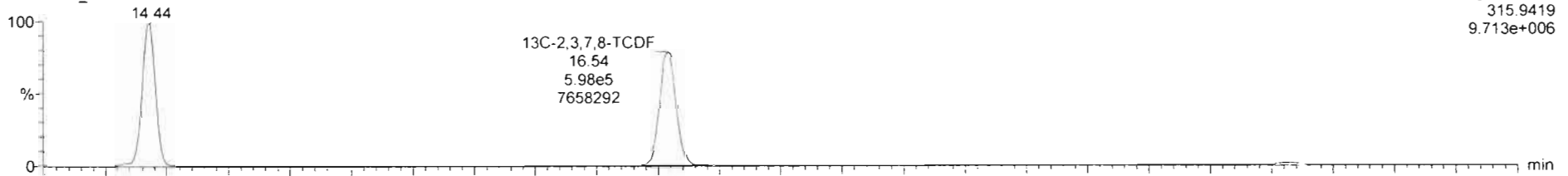


200309R2_4

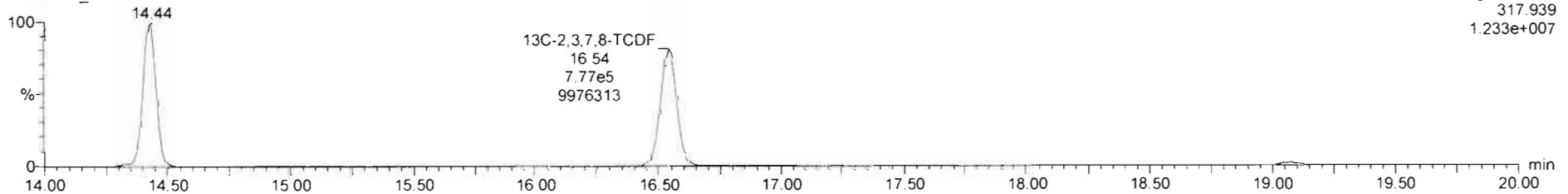


13C-2,3,7,8-TCDF

200309R2_4



200309R2_4



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

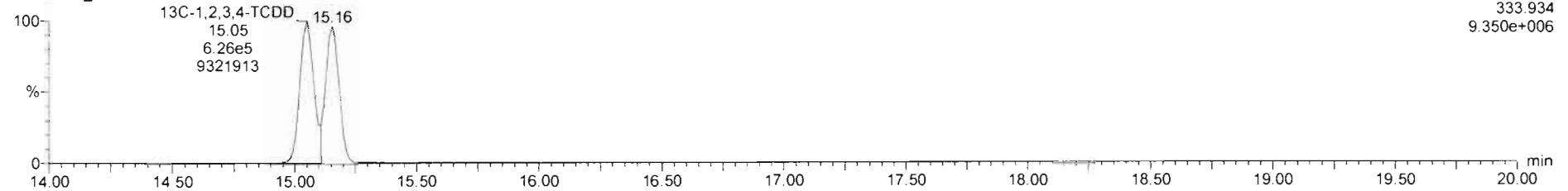
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13C-1,2,3,4-TCDD

200309R2_4

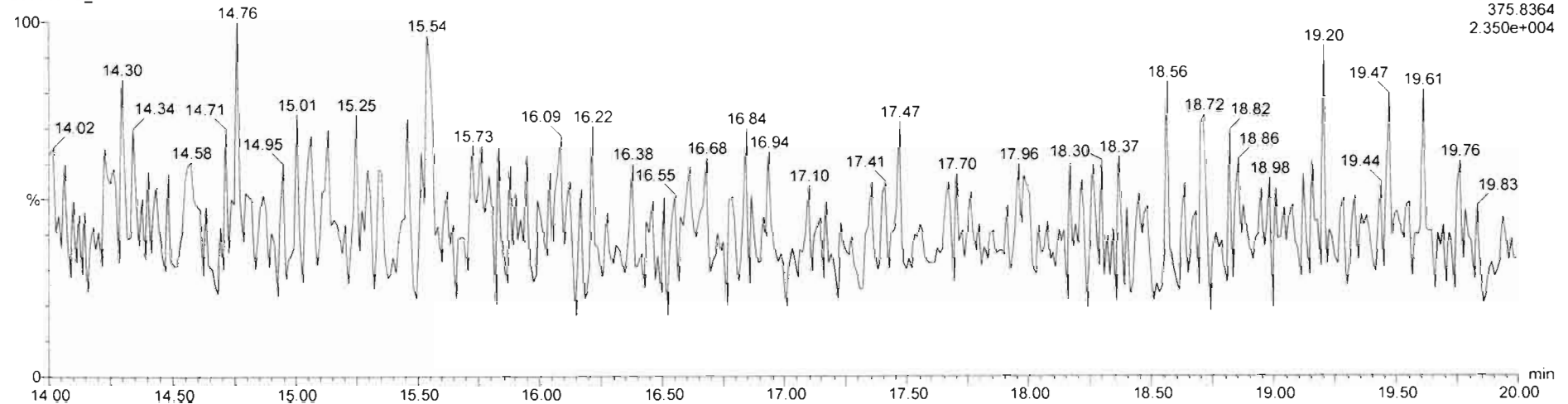


200309R2_4



DPE1

200309R2_4



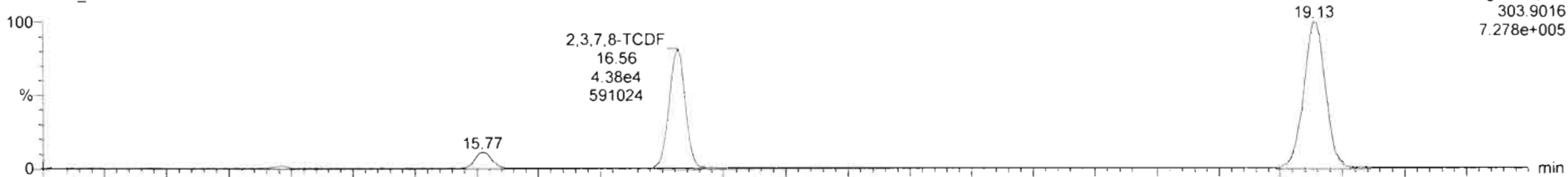
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

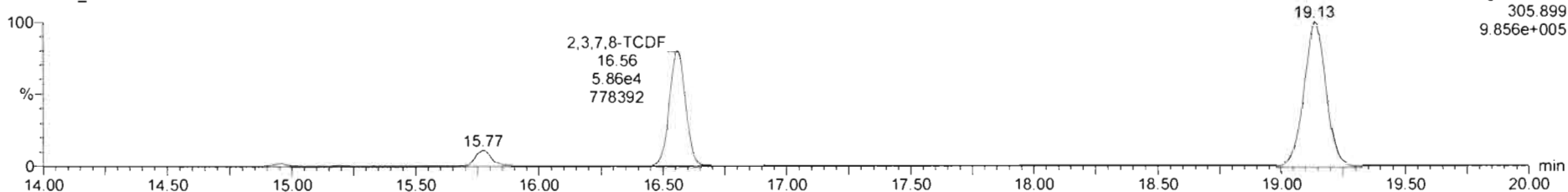
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200309R2_5

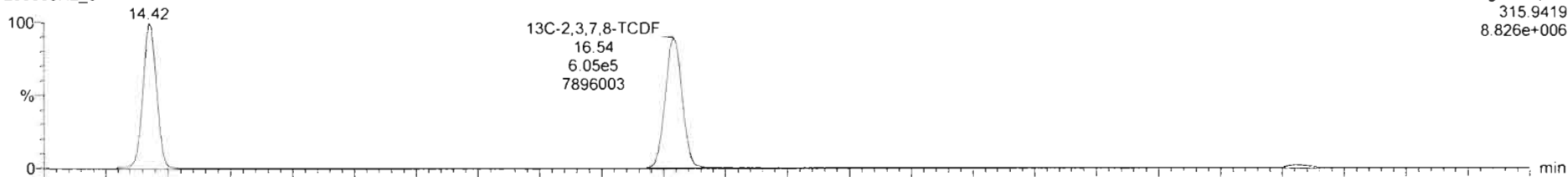


200309R2_5

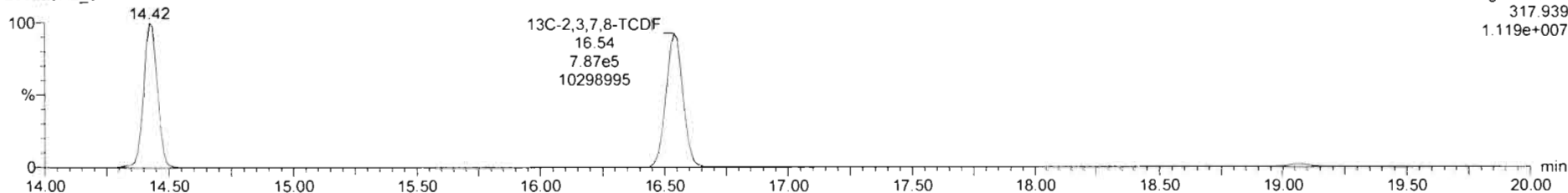


13C-2,3,7,8-TCDF

200309R2_5



200309R2_5



Dataset: Untitled

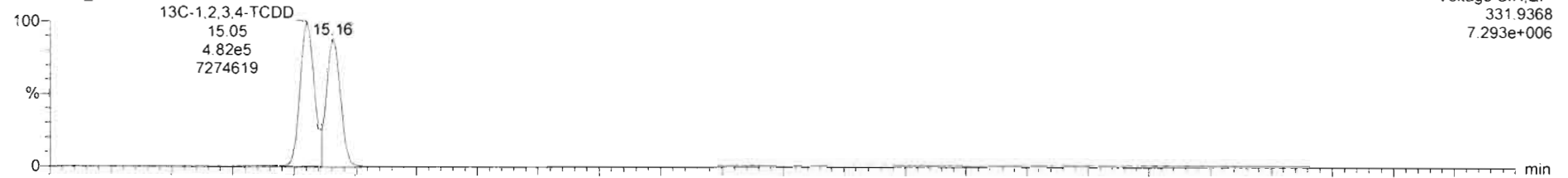
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

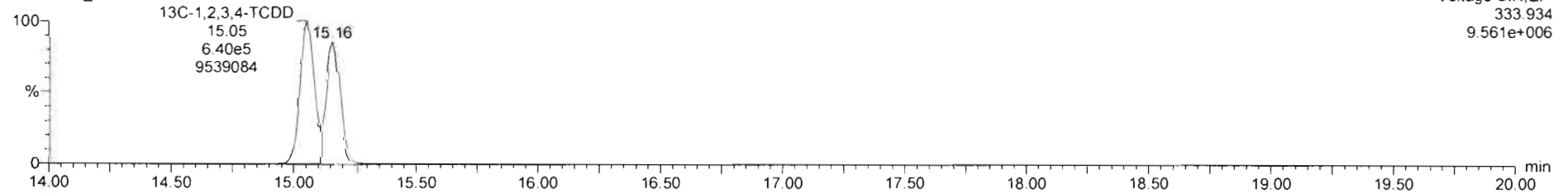
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

13C-1,2,3,4-TCDD

200309R2_5

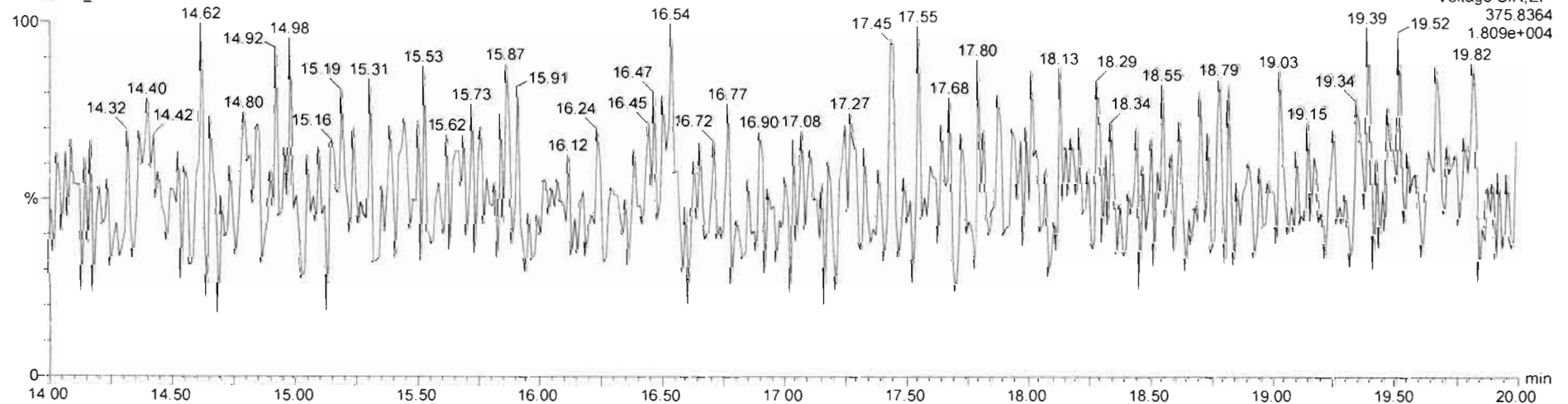


200309R2_5



DPE1

200309R2_5



Dataset: Untitled

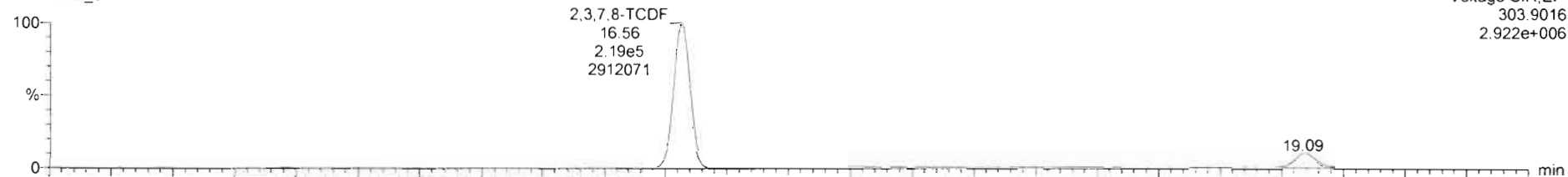
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

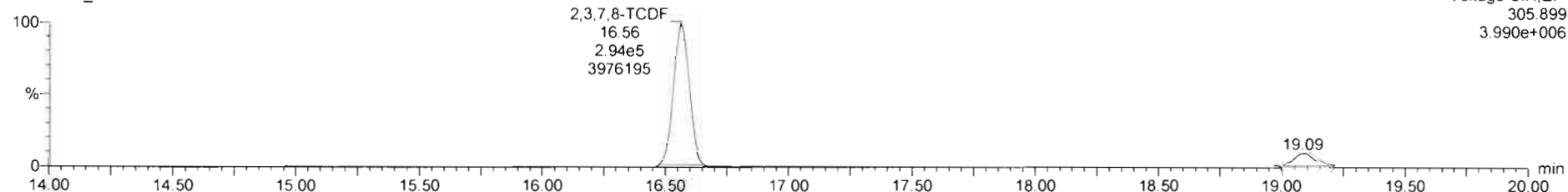
2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
303.9016
2.922e+006

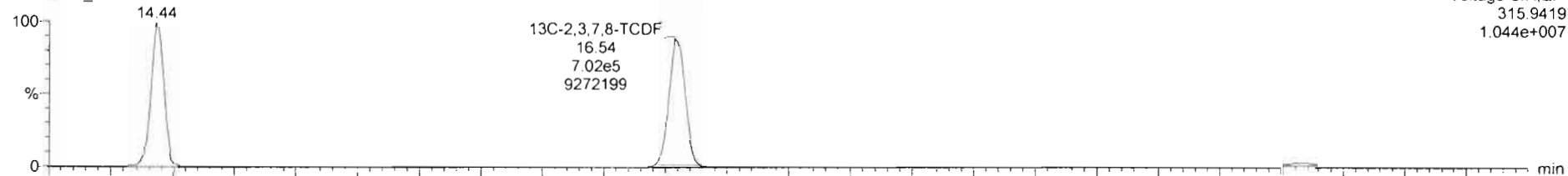
200309R2_6



Voltage SIR,EI+
305.899
3.990e+006

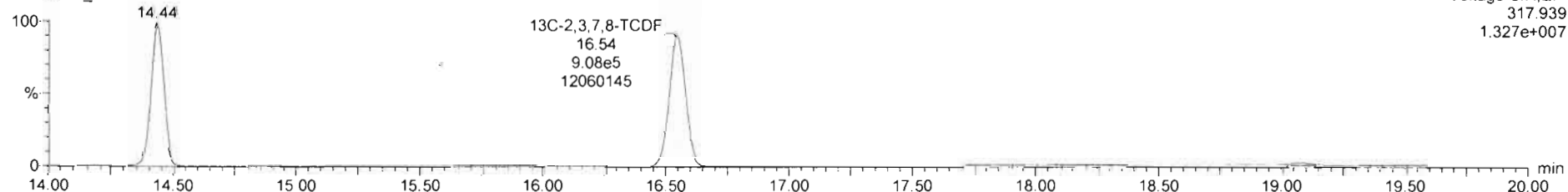
13C-2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
315.9419
1.044e+007

200309R2_6



Voltage SIR,EI+
317.939
1.327e+007

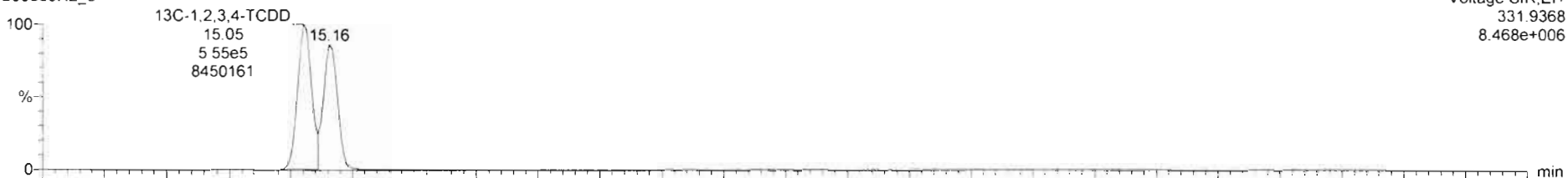
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

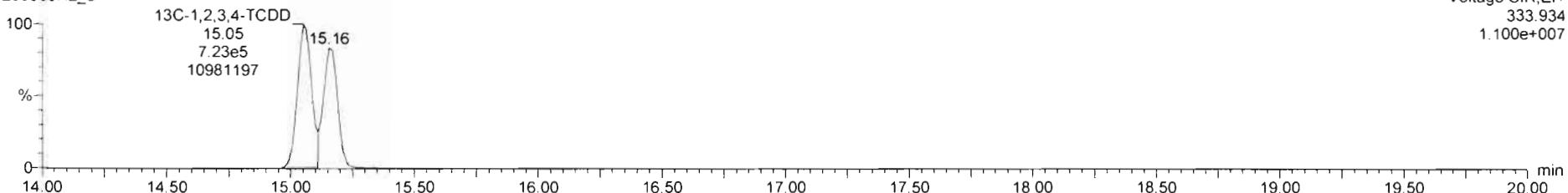
13C-1,2,3,4-TCDD

200309R2_6



Voltage SIR, EI+
331.9368
8.468e+006

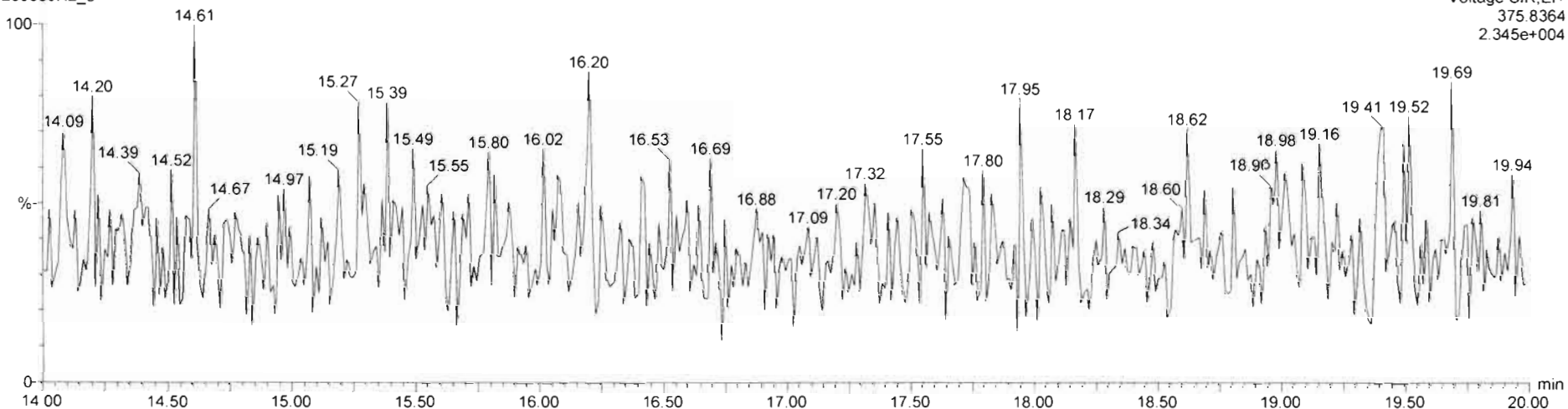
200309R2_6



Voltage SIR, EI+
333.934
1.100e+007

DPE1

200309R2_6



Voltage SIR, EI+
375.8364
2.345e+004

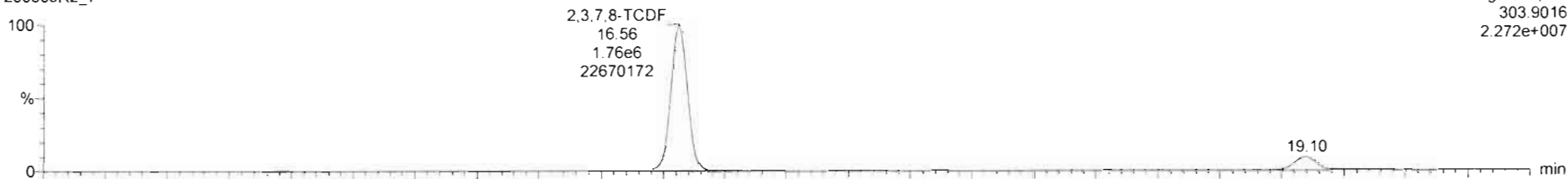
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

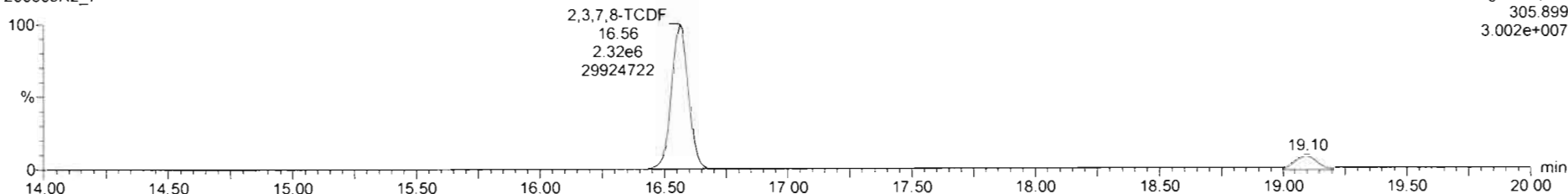
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2,3,7,8-TCDF

200309R2_7

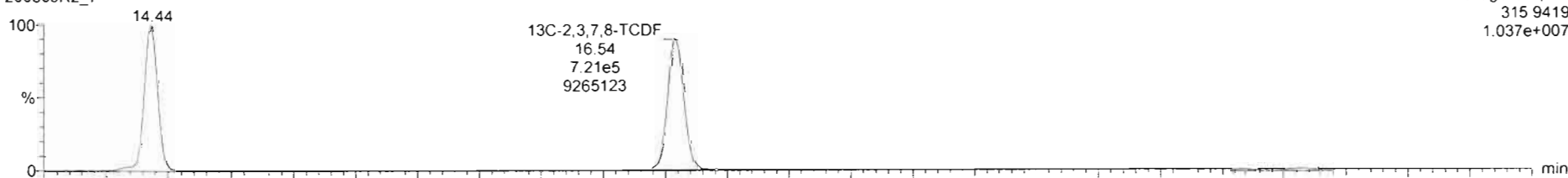


200309R2_7

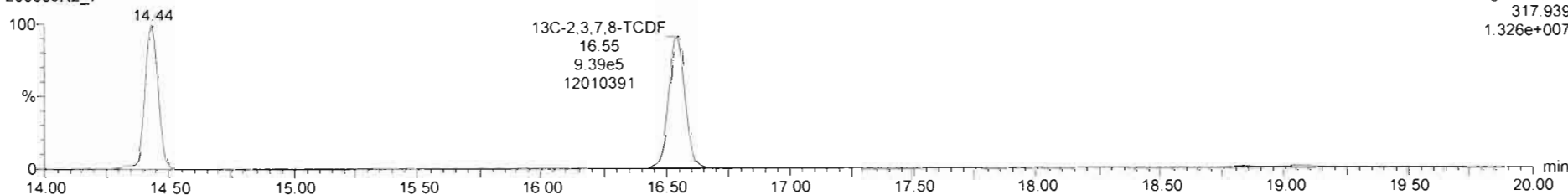


13C-2,3,7,8-TCDF

200309R2_7



200309R2_7



Dataset: Untitled

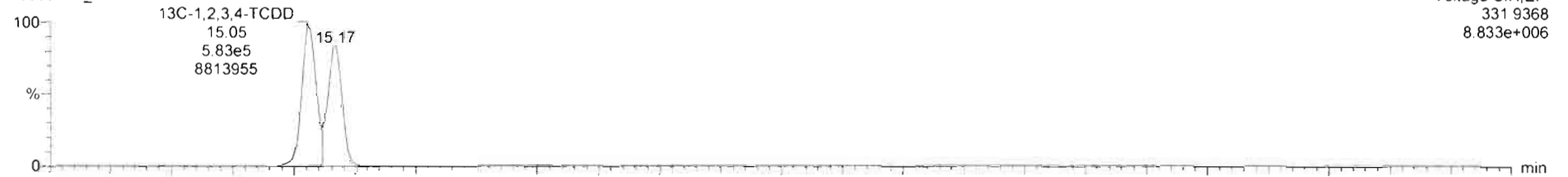
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

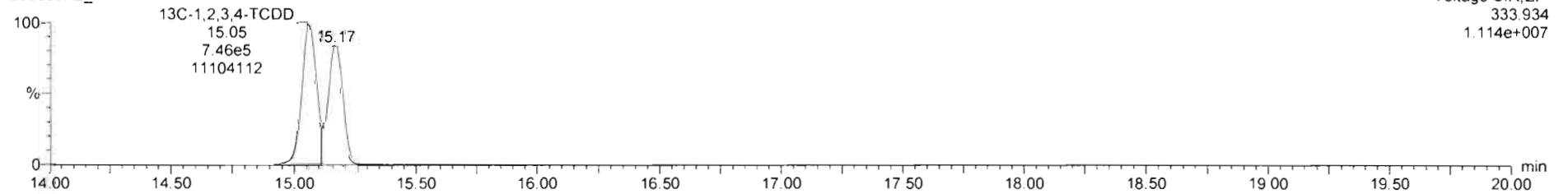
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

13C-1,2,3,4-TCDD

200309R2_7

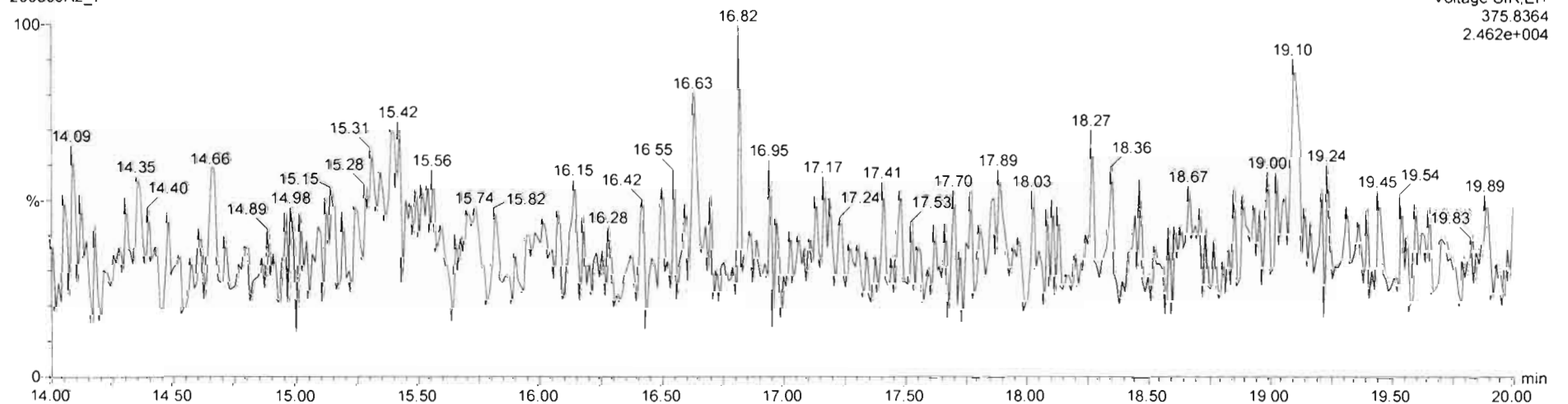


200309R2_7



DPE1

200309R2_7



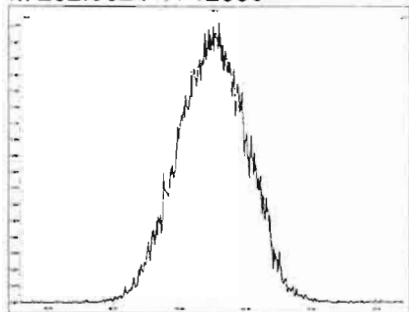
Experiment Calibration Report

MassLynx 4.1 SCN815

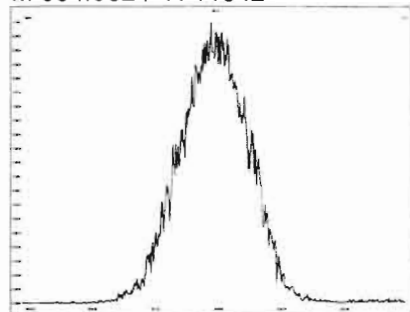
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 10, 2020 07:42:24 Pacific Daylight Time

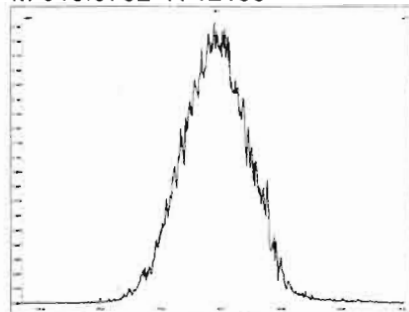
M 292.9824 R 12559



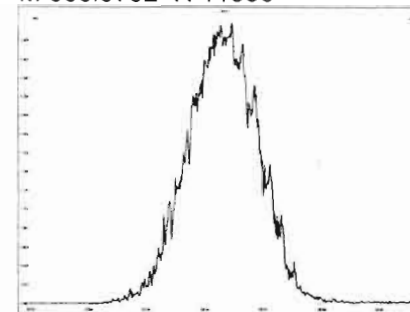
M 304.9824 R 11842



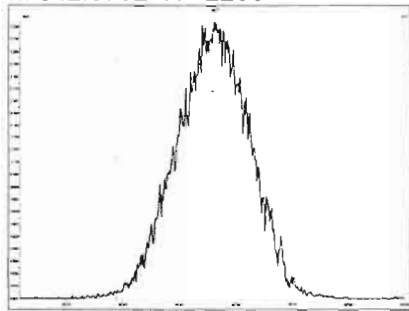
M 318.9792 R 12193



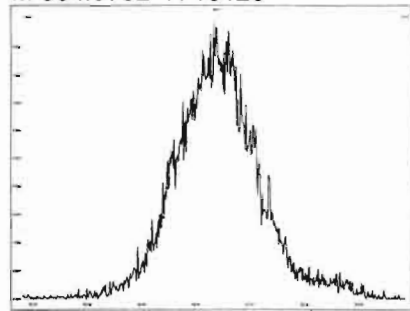
M 330.9792 R 11963



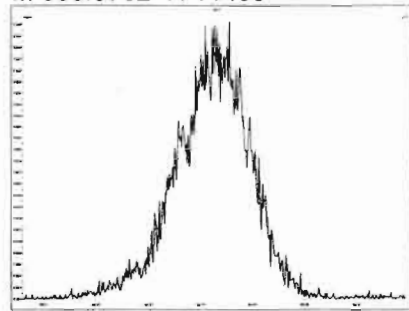
M 342.9792 R 12200



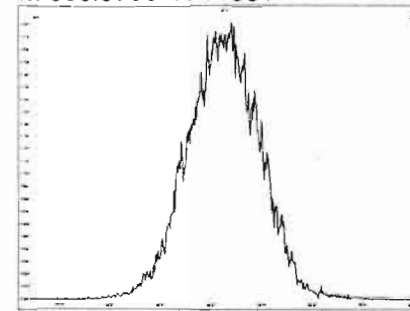
M 354.9792 R 10120



M 366.9792 R 11468



M 380.9760 R 11681



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-9.qld

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:25:09 AM Pacific Daylight Time

GRB 03/10/2020

C1 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.09e5	0.73	NO	0.821	1.000	16.56	10.163	102	0.0715
2	2 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.10	1.000	16.54	93.316	93.3	0.191
3	3 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	1.000	14.44	100.00	100	0.210

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

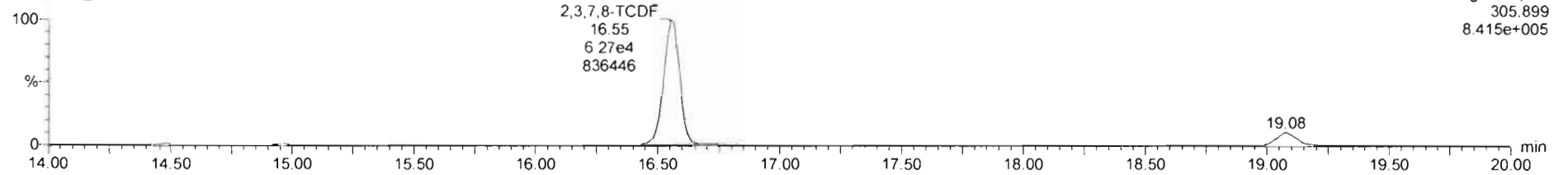
2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
303.9016
6.147e+005

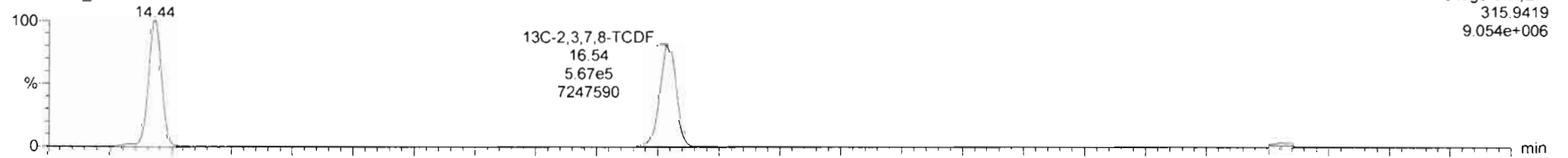
200309R2_9



Voltage SIR,EI+
305.899
8.415e+005

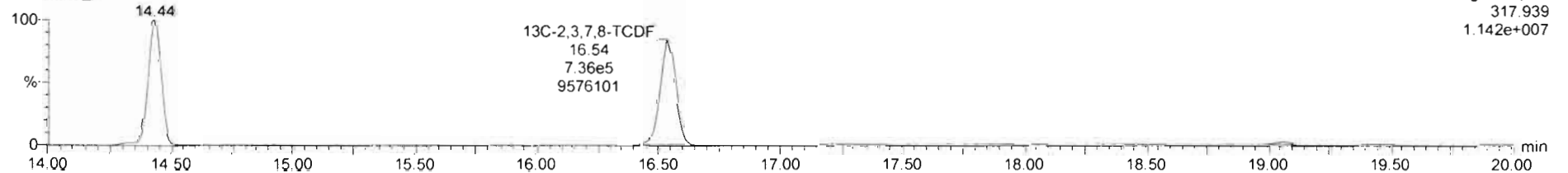
13C-2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
315.9419
9.054e+006

200309R2_9



Voltage SIR,EI+
317.939
1.142e+007

Dataset: Untitled

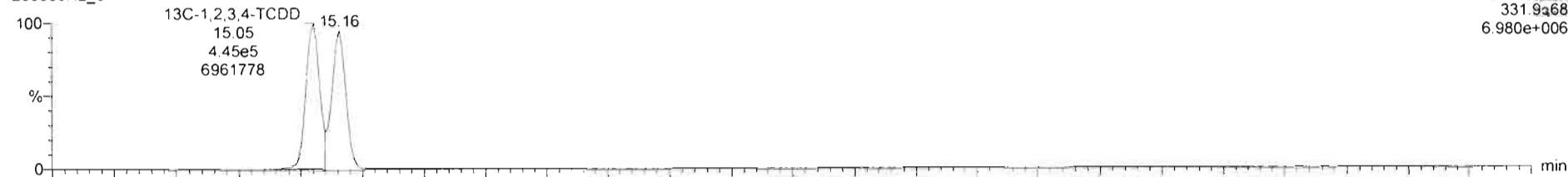
Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

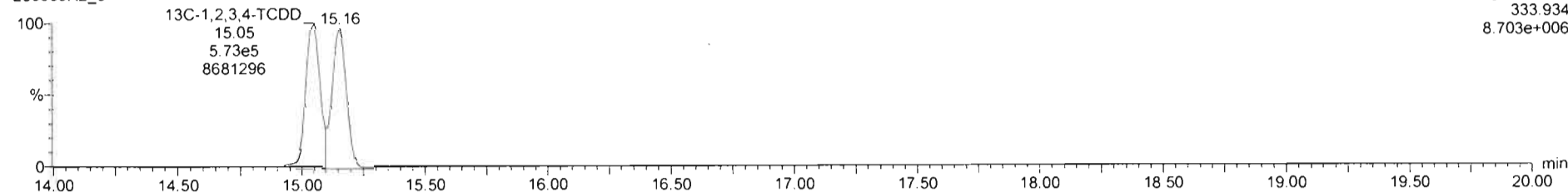
Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

13C-1,2,3,4-TCDD

200309R2_9



200309R2_9



DPE1

200309R2_9

